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# Four-Ocean Navy in the Nuclear Age

*Revolutionized by the atom, far-ranging United States forces afloat  
contribute unprecedented strength to the cause of peace*

By THOMAS W. McKNEW

Vice Chairman of the Board of Trustees, National Geographic Society

CIRCLING US in the distance above the Mediterranean, the crippled jet fighter-bomber looked like a one-legged sea gull. In to roost came other planes of the United States Navy's nuclear-powered aircraft carrier *Enterprise*, howling down one by one, mission over. The wait was ending.

Rubber-tired tractors tugged the newly returned planes well away from the angled runway, and in two minutes the flight deck crew raised a nylon barricade across it.

Fire fighters in asbestos suits, foam nozzles in hand, ran to their posts. Men wearing red crosses stood by with wire litters. It was time for the injured *Crusader* to come home.

## 14-ton Plane Netted Like a Bird

With Adm. David L. McDonald, then Commander of the Sixth Fleet, I watched from the bridge of this largest and most powerful ship in the world. Now, on the intercom, the captain said, "Bring him in."

We could see the aircraft clearly, approaching *Enterprise* with one wheel dangling. It had been damaged in the catapulted take-off.

I stole a glance at the net stretched across

the runway six decks below. How could it possibly stop a 14-ton fighter-bomber?

Suddenly the *Crusader* roared life-size above the stern, then skimmed low over the flight deck, yawing slightly. The pilot brought her in at normal landing speed—around 150 miles an hour—and flew her straight into the barricade (page 159).

Before our eyes that 21-foot-high maze completely unmeshed the plane, yielded 100 feet, and stopped it dead. An incredibly strong web—thickness after thickness of heavy nylon strips fastened to hydraulically controlled cables—had halted the aircraft in the length of a football field.

And the pilot, uninjured, walked away.

His million-dollar, 1,200-mile-an-hour Chance-Vought *Crusader* would fly again, too. It sustained only minor wing damage.

This was the nuclear-powered, 100-plane carrier's first barricade engagement, as the Navy calls it, in thousands of plane recoveries. Launch, recovery, launch, recovery—day and night, this is the life cycle of the aircraft carrier. Each launch and each recovery represent the cooperative effort of the entire ship.

Catapult steam swirls across the deck of the nuclear aircraft carrier U.S.S. *Enterprise* as crewmen prepare to hurl aloft a North American A-5A Vigilante. The *Enterprise*, world's largest ship, keeps planes in the air around the clock when she cruises the world's oceans as a major weapon of the U.S. Navy.

ENTREPRENEUR BY NAYAN





Above a fireball sun,  
a Vigilante—the Navy's  
biggest attack bomber—  
begins its landing pattern.

COMBATANT PHOTOGRAPH BY MICHAEL SHARP © N.S.A.



Capt. Vincent Paul de Poix, then commanding *Enterprise*, had trained his 4,600 officers and men for this emergency, or any other.

A man's life had, indeed, hung in the balance for a few fearful seconds. But that night, logging the day's events in my journal, I realized that what we had witnessed was more than a dramatic slice of life at sea. This was the four-ocean United States Navy at its best, calmly meeting one more challenge.

It could have been a different challenge, and it could have happened half a world away—in Atlantic, Pacific, Indian, or Arctic Ocean. One such test occurred last August, for example, when North Vietnamese torpedo boats attacked two U.S. destroyers in the Gulf of Tonkin (see the National Geographic Society's new wall map, *The World*, distributed as a supplement to this issue).

But whatever the magnitude of the crisis, the Navy's reaction is the same: swift response, efficiently executed.

### Nuclear Task Force Circles the Globe

Two years ago Adm. George W. Anderson, Jr., then Chief of Naval Operations, marked January 17, 1955, as the birth date of our nuclear Navy.\* On that day Comdr. Eugene P. Wilkinson, commanding the attack submarine U.S.S. *Nautilus*, flashed his historic message to President Eisenhower:

"Underway on nuclear power."

Today our Navy has 53 nuclear-powered ships in commission besides the giant carrier *Enterprise*. Though mostly submarines, they

include the guided-missile cruiser *Long Beach* and the missile frigate *Bainbridge*. The missile frigate *Triton* has just been launched.

"Nuclear power marks the greatest advance in propulsion since the steam engine's invention," Admiral McDonald declared to me shortly after his promotion to Chief of Naval Operations, "and of all the armed services it most concerns the Navy. It is essential that we pursue its development."

His words came vividly home to me last June when I flew to the Mediterranean with staff writer Robert P. Jordan to see the world's first all-nuclear-powered surface task force of warships in operation. This unique force, heading *Enterprise* with *Long Beach* and *Bainbridge*, patrolled the Mediterranean last summer as part of the Sixth Fleet. Then it took the long way home—around Africa, north to Karachi, south around Australia, across the Roaring Forties to Cape Horn, and finally north again to the United States—in a demonstration of high performance and great range (foldout, pages 153-5).

*Enterprise*, now commanded by Capt. F. H. Michaelis, carries more than 100 aircraft, from the 1,600-mile-an-hour McDonnell Phantom II jet fighters to the venerable Douglas propeller-driven Skyraiders. The offensive and defensive capabilities of "Big E" and her missile ships *Long Beach* and *Bainbridge* give this nuclear-powered task force a perform-

\*See "Our Nuclear Navy," by Adm. George W. Anderson, Jr., USN, and "The Mighty *Enterprise*," by Nathaniel F. Jerney, NATIONAL GEOGRAPHIC, March, 1963.



The Author Thomas W. McKnew (far left) has served the National Geographic Society for more than a third of a century. Executive Vice President and Secretary of the Society until 1962, he now is Vice Chairman of its Board of Trustees. Dr. McKnew holds the Distinguished Public Service Award of the United States Navy.

For this article, he traveled more than 80,000 miles to see our Navy in action throughout the world. Here, aboard the guided-missile cruiser U.S.S. *Providence* in Tokyo Bay, Dr. McKnew talks with Vice Adm. Paul D. Stross, Commander, Naval Air Force, Pacific Fleet (center), and Adm. Thomas H. Moore, then Commander of the Seventh Fleet and now Commander in Chief, Pacific Fleet. Gesturing in foreground is Vice Adm. John S. Thach, then Commander, Antisubmarine Warfare Force, Pacific Fleet, and today Deputy Chief of Naval Operations for Air.



Men who guide our global Navy confer at the Pentagon during the tense Gulf of Tonkin incident last summer. Left to right: Gen. Wallace M. Greene, Jr., Marine Corps Commandant; Adm. David L. McDonald, Chief of Naval Operations; and Adm. Horacio Rivero, Jr., Vice CNO. The Navy's far-flung fleets roam Atlantic, Pacific, Indian, and Arctic Oceans, serving as deterrents against the brush fires of international dispute.

ance and flexibility unique in naval history.

Operation Sea Orbit marked the first world cruise of a task force without refueling or resupplying. The ships covered 39,782 statute miles in 57 days at sea—averaging an easy 22 knots. Port visits took another eight days. They could just as easily have gone around the world nonstop, as the nuclear submarine *Triton* did four years earlier.\*

Seventh of the big *Forrestal* class, Bix E is the only carrier propelled by nuclear energy—as yet. The 77,000-ton *America*, just commissioned at the great shipyard at Newport News, Virginia, is powered with oil.

Congress has authorized still another mighty carrier, to be named *John F. Kennedy*. Its construction was held up more than a year while the Department of Defense made ex-

tensive cost-effectiveness studies. In the end, the department ruled that building should go ahead, but that the carrier would have conventional "fossil" power, not nuclear.

Thus the *John F. Kennedy*, like its oil-fired sister ship *America*, will not be able to challenge *Enterprise's* feat of steaming nearly 35,000 miles at an average 22 knots without refueling along the way.

Unfortunately, this ruling has halted, at least temporarily, the Navy's program of nuclear propulsion for major new combat surface ships. Yet in the few years since *Enterprise* was built, with its eight nuclear reactors, the Atomic Energy Commission and

\*In the November, 1960, NATIONAL GEOGRAPHIC, Capt. Edward L. Beach, USN, described *Triton's* history-making cruise around the world submerged.







Exploding from the ocean depths, a Polaris A-3 soars skyward from Florida waters on a flight down the Atlantic Missile Range. The 31-foot bullet-shaped missile, undrushed from the submerged submarine U.S.S. *Tamul Moon*, will demonstrate its remarkable accuracy by striking an instrumented target area far down range.

Today the Navy has commissioned more than two-thirds of a planned fleet of 41 ballistic missile submarines, familiarly called Polaris after the missiles they carry. The entire nuclear-powered force will be operational in 1966. With almost unlimited range and endurance limited only by the crew, nuclear submarines cruise hidden in the ocean, their locations unknown to any potential enemy. And their deadly Polaris missiles, with a range of nearly 3,000 statute miles, can hit any spot on earth.

Aboard the U.S.S. *Andrew Jackson*, submariners monitor control panels adjacent to the 16 missile launchers that they call Sherwood Forest. Each Polaris vessel has two complete crews, the Blue and the Gold, of some 140 men each. Alternating patrols spend nearly two months of radio-silent submergence in assigned areas in both hemispheres.



STOCKMAN COURTESY, AN OFFICIAL POLARIS SUBMARINE AND SUBMARINERS AT THE U.S.S. *Andrew Jackson*, 1966. PHOTO BY MICHAEL L. BROWN







*OPERATION SEA ORBIT: A nuclear-powered task force led by Enterprise with the cruiser Long Beach (9) and frigate Bainbridge (25), both bristling with missiles, slices through the Mediterranean Sea at the start of a round-the-world cruise in mid-1964. Fifteen hundred seamen aboard the carrier spell out Einstein's famous equation: Energy equals mass times the speed of light squared, the formula that led to man's harnessing of atomic energy.*

KODACHROME BY NATIONAL GEOGRAPHIC PHOTOGRAPHER WINFIELD FARNS © R.E.A.



Navy's new developed reactors of much higher efficiency and, with more than double the life.

Smaller reactors would be needed to supply the same amount of power for a new carrier today, saving tremendous volume, weight and cost. As I write this, a carrier with only two reactors—instead of eight—is being discussed. Recent, indeed, are the advances in our gas propulsion plants. Many authorities believe that tomorrow's reactors may never need refueling.

### Navy Pioneers Tomorrow's Power

The great industrial power revolution of yesterday followed the adoption of steam turbines by the Navy to propel its battleships and other warships. It is reasonable to assume that benefits to the industrial uses of atomic energy, far exceeding the cost of the nuclear power plants in naval ships, will result from the continued use and development of nuclear power in the Navy.

With nuclear propulsion, the Navy scores an advance whose vast scope is not yet fully realized. Here are some of its advantages. Virtually unlimited cruising range at high speed, greater maneuverability because of lack of acceleration, deceleration, and stop-down power, much less time to get up steam.

The cost of supplying conventional fuel is saved over the ship's lifetime. Gone is the need for frequent, time-consuming fuel replenishment, and the space saved by not using oil permits more ammunition to be carried.

The elimination of smoke on the flight deck makes flying safer, now possible and without having to fly through a haze of hot gases. With all these slack gases, corrosive to ship and planes, countless man-hours and dollars are saved.

No longer must upper decks and superstructure be cluttered with large air-passage spaces. Greater gas-tight integrity also safeguards the ship from atomic fallout and biological and chemical attack.

"The ship does not depend upon great quantities of air to sustain combustion, as do

the fossil-fueled ships," Captain McInnes explained. "The result is that radioactive contaminants can be excluded as the ship drives through an air mass contaminated by atomic war clouds."

I had seen much of the Navy before my cruises with the Sixth Fleet. I have found it dispersed throughout most of the world we live in, confronting its strength to the cause of peace everywhere. To quote an old saying: "The U. S. Navy never sets on the U. S. N. It is ready for whatever may come wherever it comes."

Aboard *Enterprise* and other Sixth Fleet combat ships, I have cruised thousands of miles. And not long ago I sailed and flew up and down the far reaches of the Pacific with our Seventh Fleet.

In recent years I have chafed at the sight of Russian trawlers, decks bristling with electronic listening and measuring equipment, scanning brazenly among our ships in maneuvers off Portugal. And I have ridden a plane down the Formosa Strait with the uneasy knowledge that the Chinese Reds were watching us on their radar screens. Such things are routine to our Navy men.

### One Step, One Hit in Missile Age

As a student of the Navy since my own jacket days nearly half a century ago, I have learned that the most constant thing about it is—change. The Navy has been a tradition all its 186-year history. There was the evolution from sail to steam, and from wooden ships to steel. There was the advent of the sea-battle tactic. Today missiles and nuclear weapons have come to the fore.

Yet the Navy retains its flexibility, never "clannish" and ready to use either conventional or nuclear weapons as required.

We used "garden-hose" warfare in World War II, spraying targets with relatively inexpensive bullets and shells. Now surface-to-air missiles like the Terrier and Talos are very expensive—and we perforce must have a different system: one shot, one hit.

The Navy today costs the U. S. taxpayer \$14,300,000,000 annually—roughly \$126 for

### Mock War Rages on the North Carolina Coast as Marines Storm Ashore

Much like the human body, the Navy needs exercise now to stay at peak efficiency. This year Navy and Marine units conduct more than 400 major training operations. These air and ground forces of the Second Marine Division practice amphibious landings at Camp Lejeune Beach, near Camp Lejeune. Their quarters with combat-ready troops and without the "enemy" lines in an ever-moving maneuver.

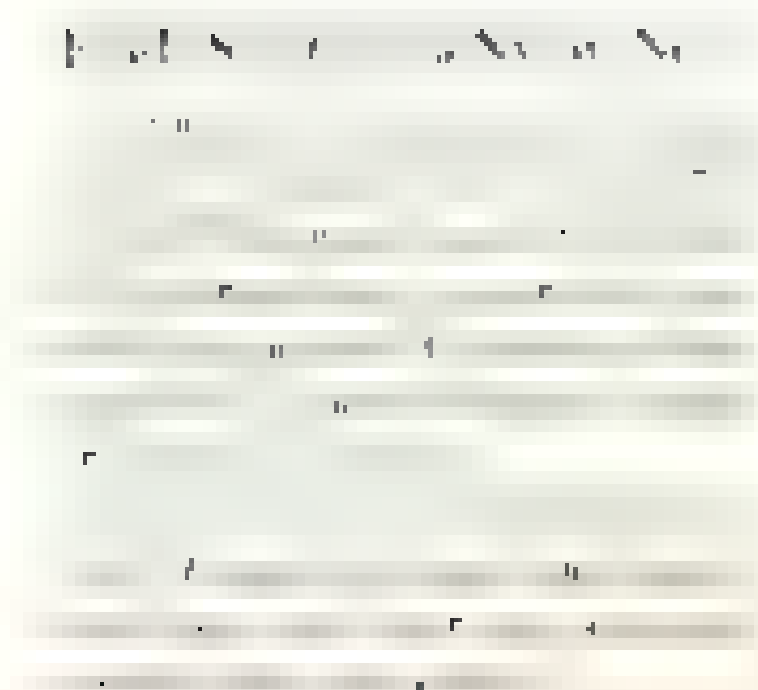




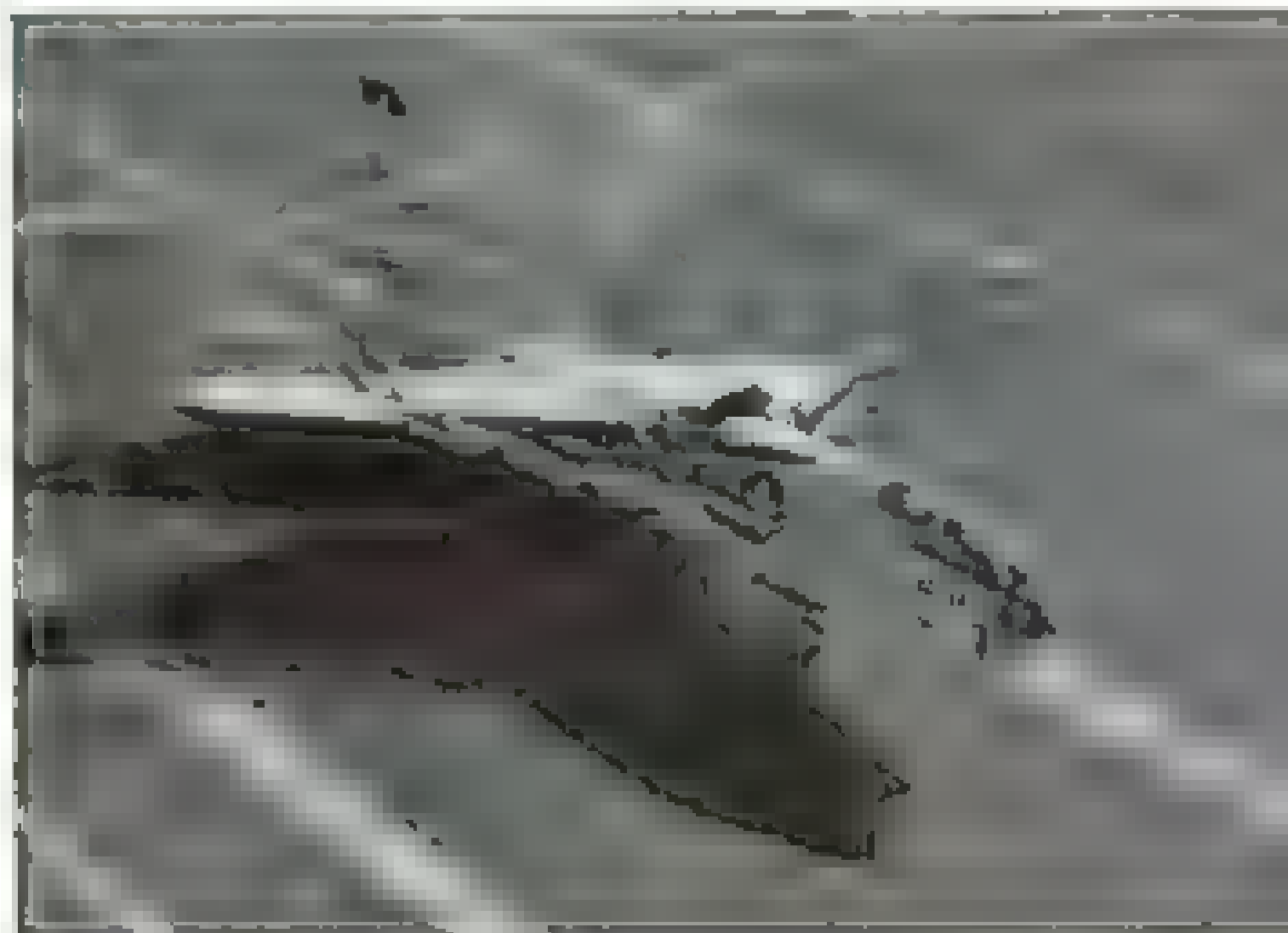
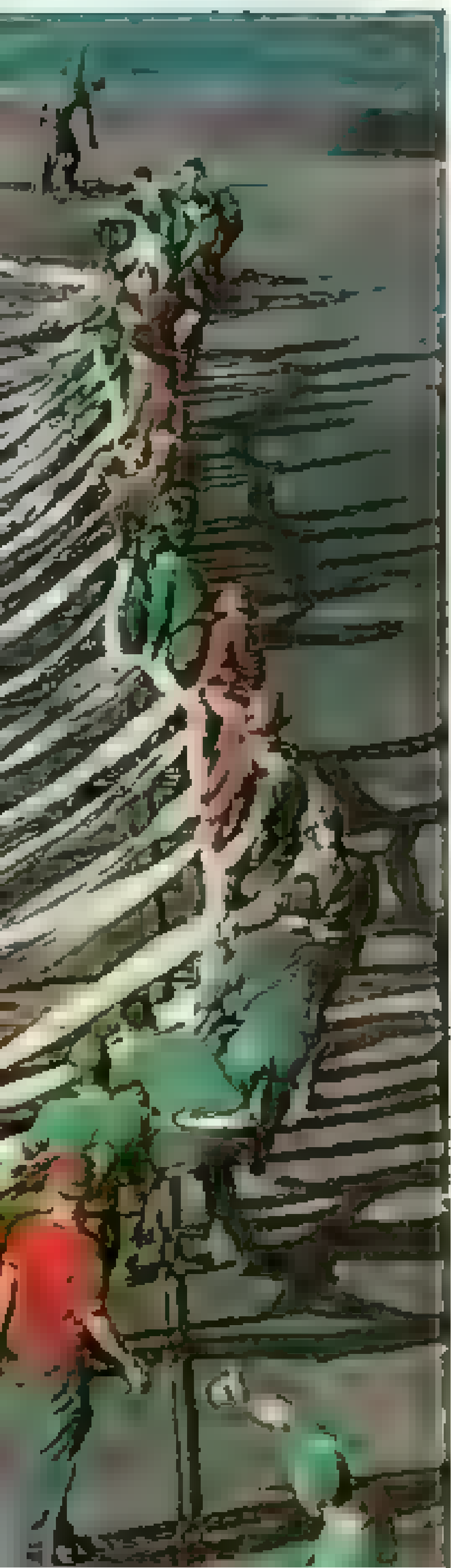


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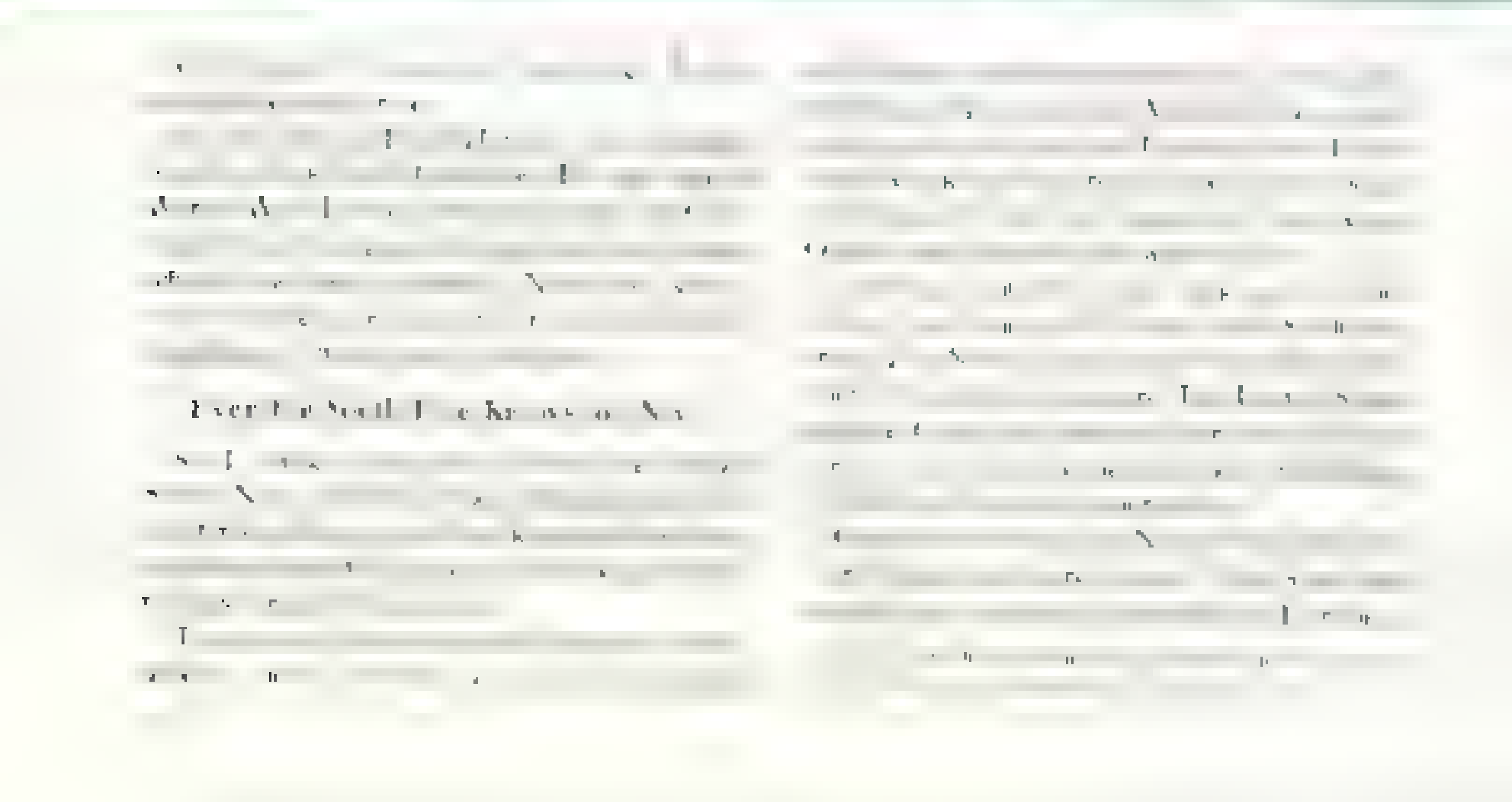


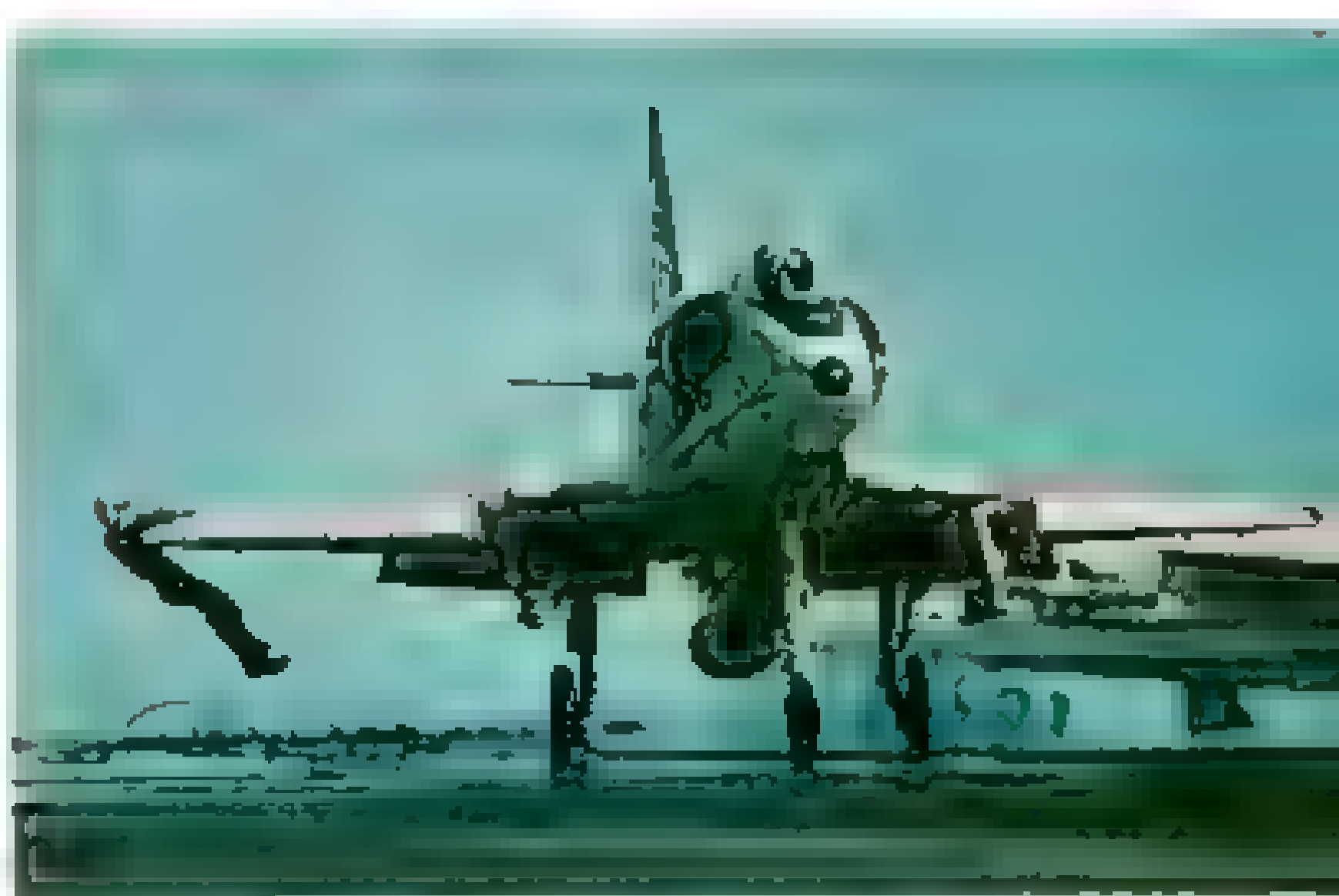
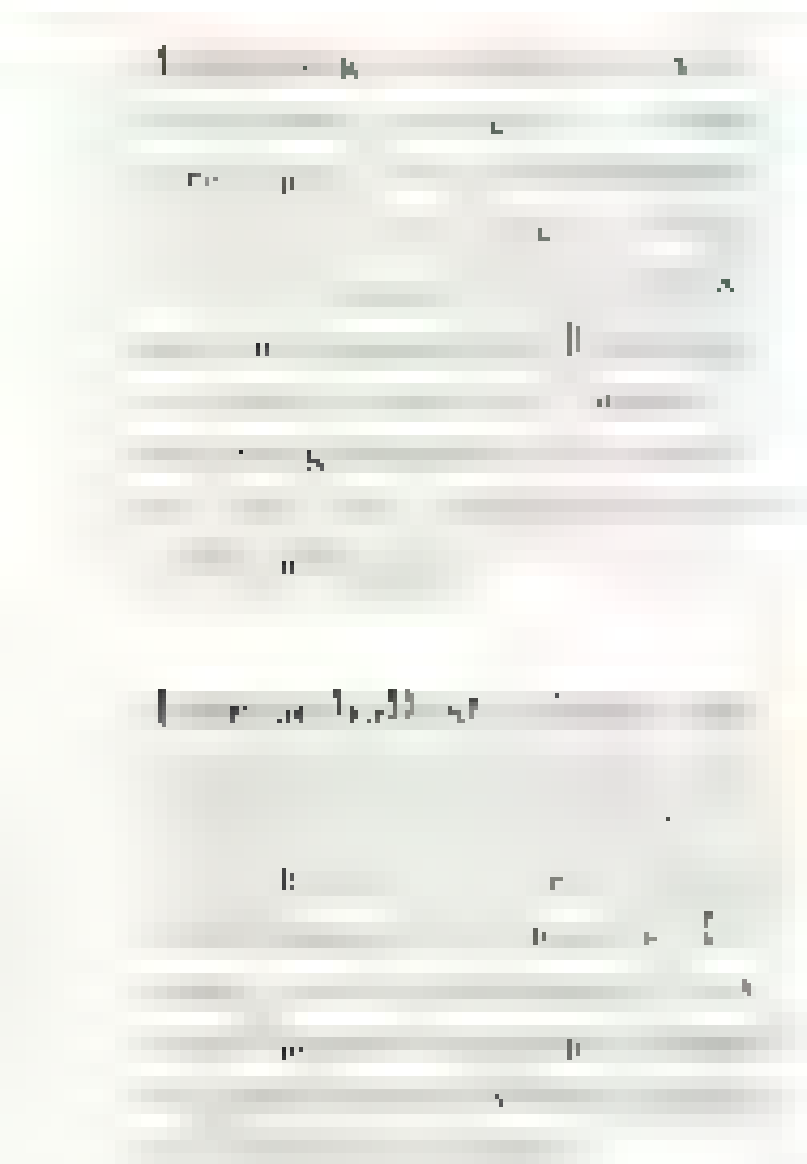
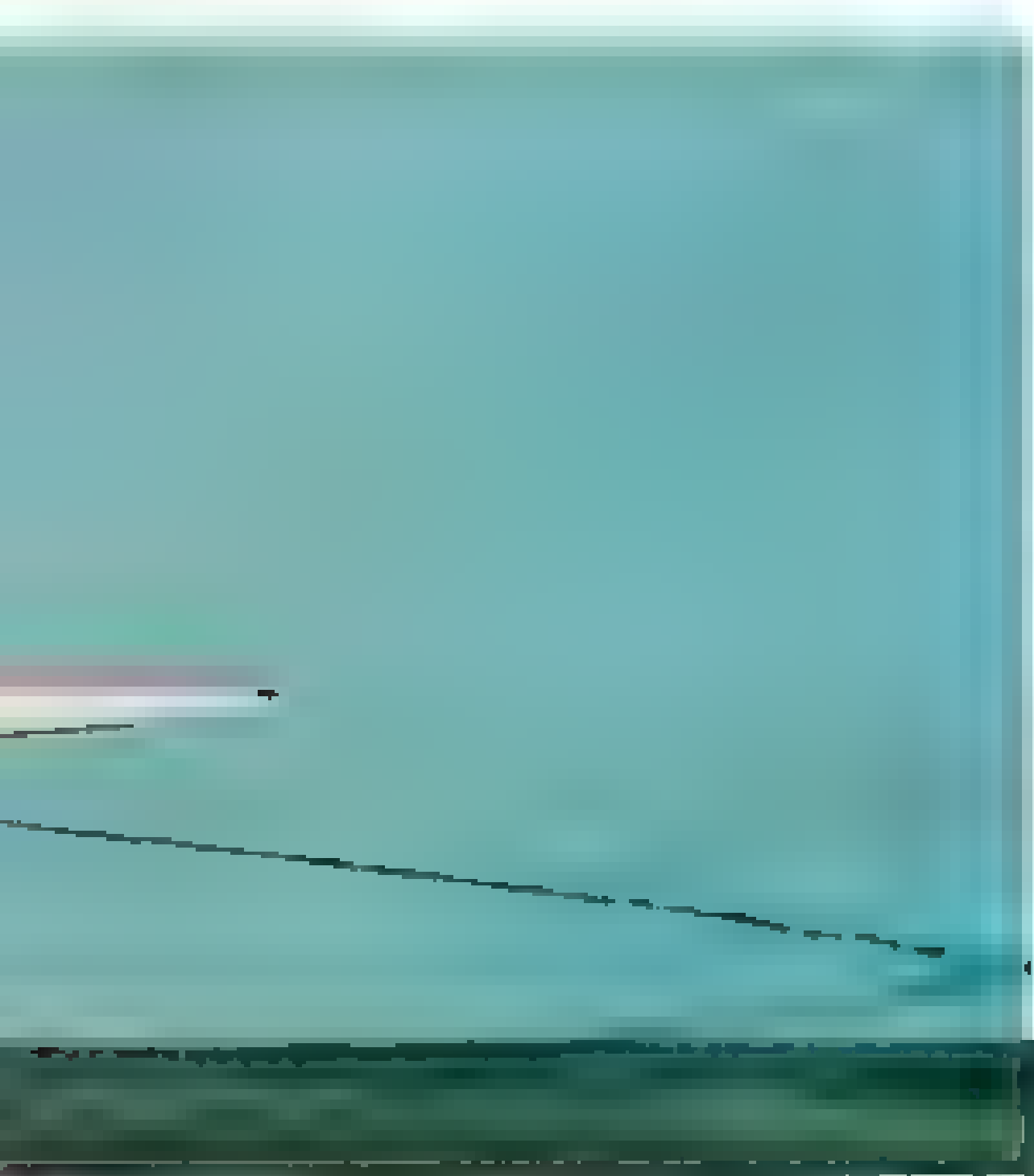
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1. *Staphylococcus aureus* (100 µl)





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# AMERICA'S ★★★★★ FOUR-FLEET NAVY STANDS WORLD-WIDE WATCH

Arctic Ocean

Navy research vessels  
puzzle the mystery of  
the earth's ocean depths

## ASIA

Navy Patrol Wing  
watches the shipping as the  
Soviet monitors  
the ice drifts

A + 4  
+ 1

Adak  
+ 1

Kodak Island  
+ 1

## NORTH AMERICA

Puget Sound  
+ 1 + 1

San Francisco

+ 1 + 1

+ 6 + 1

+ 7 + 1

U.S.A.

St. Pearl Harbor  
+ 1 + 1 + 1

## Pacific Ocean

Operation Sea Dragon—Nuclear test force  
uses Enterprise and Long Beach, after  
three years at sea on original nuclear fuel  
and Bunker Ridge after two years cruise  
around the world in 1964—demonstrates  
ability to stay at sea indefinitely

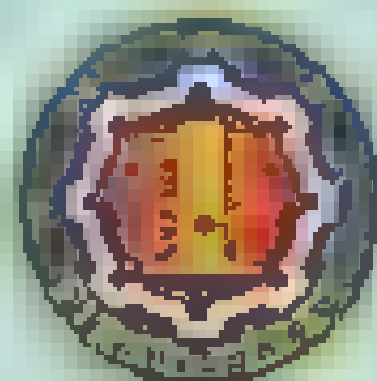
Research vessel

North  
West Cape

## AUSTRALIA



Christchurch



SEVENTH FLEET ranges the east reach  
es of the western Pacific with a command  
that spreads west from Hawaii, north to  
the Arctic, and south to the Antarctic.  
Units of the fleet patrol the danger-  
prone waters off Southeast Asia.

FIRST FLEET bulk of U. S. naval power  
in the Pacific, operates from Hawaii  
eastward. Its units train and rebuild  
for rotation with those in the Seventh  
Fleet. The First and Seventh comprise  
the major elements of the Pacific Fleet  
Command headquartered in Hawaii.

Navy ship and plane supply Operation Deep Freeze  
now in its tenth year of Antarctic scientific  
research—celebrates open sea routes to McMurdo

### MAP NUMBERS SHOW BASES AND STATIONS SUPPORTING THE NAVY'S SEAGOING FLEETS

1. Christchurch, New Zealand, is the Navy's supply and Naval Support Force that maintains U. S. sealift bases in Antarctica, including Amundsen Sea station at the Pole. It also serves as headquarters for the combat ready Third Marine Division, the trained and as a training ground for jungle warfare.
2. Wake Island, provides home and headquarters for the First Marine Air Wing and Navy Patrol Wing.
3. Yokosuka, Japan, the home port for the Commander of the Seventh Fleet.
4. Hawaii, hub of U. S. Pacific forces, headquarters of the Commander in Chief for the Pacific area (unified command of all U. S. services); of the Commander in Chief, U. S. Pacific Fleet; of the Fleet Marine Force Pacific; and of the Pacific

5. Fleet Support Force, Anti-submarine Warfare Force, Service Force, and Barrier Force.
6. Long Beach, California, Pacific Fleet's Mine Force makes its headquarters here.
7. San Diego, California, largest U. S. installation on the U. S. west coast. The Commander of the First Fleet makes this his principal U. S. headquarters. Also headquarted here are the Pacific Fleet's Cruiser-Destroyer Force, Amphibious Force, and Naval Air Force. First Marine Division bases and trains at nearby Camp Pendleton. Third Marine Air Wing flies from E. 100.
8. Newport, Rhode Island, headquarters for the Cruiser-Destroyer Force, Anti-Submarine Force.
9. New London, Connecticut, serves as the Navy's major submarine base and training area for submarines.
10. Washington, D. C., U. S. Navy's nerve center.
11. Norfolk, Virginia, world's largest naval base gives the

submarines track through the polar ice cap on their trips across the top of the world.

Flag at Washington indicates the Secretary of the Navy, the Hon. Paul H. Nitze, while anchor "H" at Naval Operations Admiral David L. McDonald, four stars on a blue and white field, and Commandant Marine Corps General Wallace M. Green, Jr., red field. Four stars on a blue field designate full admiral commands.

- ✚ Naval aviation
- ✚ Naval area command headquarters
- ✚ Naval base
- ✚ Navy yard
- ✚ Fleet support unit
- ✚ Commanding unit station



## SOUTH AMERICA

Operation Amity ships of the South Atlantic Force call at African ports.



South Atlantic Fleet on the western Atlantic. The Northampton and the Wichita two communications command ships, and ready to serve the President as sailing White House in case of an atomic emergency. Ships and men of the Second rotate with those of the Sixth.



SIXTH FLEET guards the underside of Europe and with no Mediterranean base, takes its supplies from the Atlantic Fleet Mobile Service Force. The Commander's flagship makes Villefranche its normal home port. The Sixth, called the "Friendly Fleet," holds the affection of thousands around the Mediterranean with its good will acts.

## ANTARCTICA

1. Commander in Chief, Atlantic Fleet, also as Commander in Chief, the U.S. Atlantic Fleet and the Supreme Allied Commander Atlantic for NATO. The base furnishes home-port facilities for all types of Atlantic Fleet units and is the flagship of Commander Second Fleet. Here also are headquarters for the Atlantic Fleet Navy Air Force Submarine Division, a Warfare Service Forces Training Command, and Fleet Marine Force. The Atlantic Amphibious Force Command bases at nearby Little Creek, Virginia, in North Carolina. Marine Corps Second Division stands alert at Camp Lejeune, and the Second Marine Aircraft Wing flies from Cherry Point.
2. Charleston, South Carolina, home base for the Atlantic Fleet's Mine Force, provides a support base for Polar lubrication and delivery.
3. Mayport, Florida, bases Atlantic Fleet aircraft carriers.

4. Key West, Florida, headquarters for Caribbean Area Patrol.
5. Guantanamo, Cuba, harassed by Castro, carries on as the most important base for ship overhauls and crew training.
6. Panama acts as headquarters for the U.S. Navy Forces Southern Command, the Panama Sector of the Caribbean Sea Frontier, and the Western Sea Frontier.
7. Puerto Rico, headquarters for the Caribbean Sea Frontier Naval base at Roosevelt Roads. Navy and Marine Corps conduct amphibious training on Vieques Island.
8. Bremerhaven, Germany, provides the European base for the Military Sea Transportation Service.
9. Naples, Italy, headquarters for the Southern European headquarters of NATO, presently commanded by a U.S. admiral. Other activities centered here include the command of the Sixth Fleet's air support.





Squadron of Phantom pilots studies orders in the ready room. Soft red glow helps them adapt their eyes to the hazardous job of night flying.



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[illegible]

From the stand he started he started in  
and the first was not a very good one  
and the second was not a very good one

He was very kind to me. He was very kind to me. He was very kind to me. It is the best thing I have ever done. He was very kind to me. He was very kind to me. He was very kind to me.

The amount of living space is a critical factor in determining the overall quality of life. The amount of living space is a critical factor in determining the overall quality of life. The amount of living space is a critical factor in determining the overall quality of life. The amount of living space is a critical factor in determining the overall quality of life. The amount of living space is a critical factor in determining the overall quality of life.

For the purpose of this study, the following hypotheses were proposed:

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

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1. *What is the main purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research methodology?*  
 4. *What are the results of the study?*  
 5. *What are the conclusions of the study?*  
 6. *What are the limitations of the study?*  
 7. *What are the implications of the study?*  
 8. *What are the future research directions?*  
 9. *What are the contributions of the study?*  
 10. *What are the key findings of the study?*

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**Figure 1**

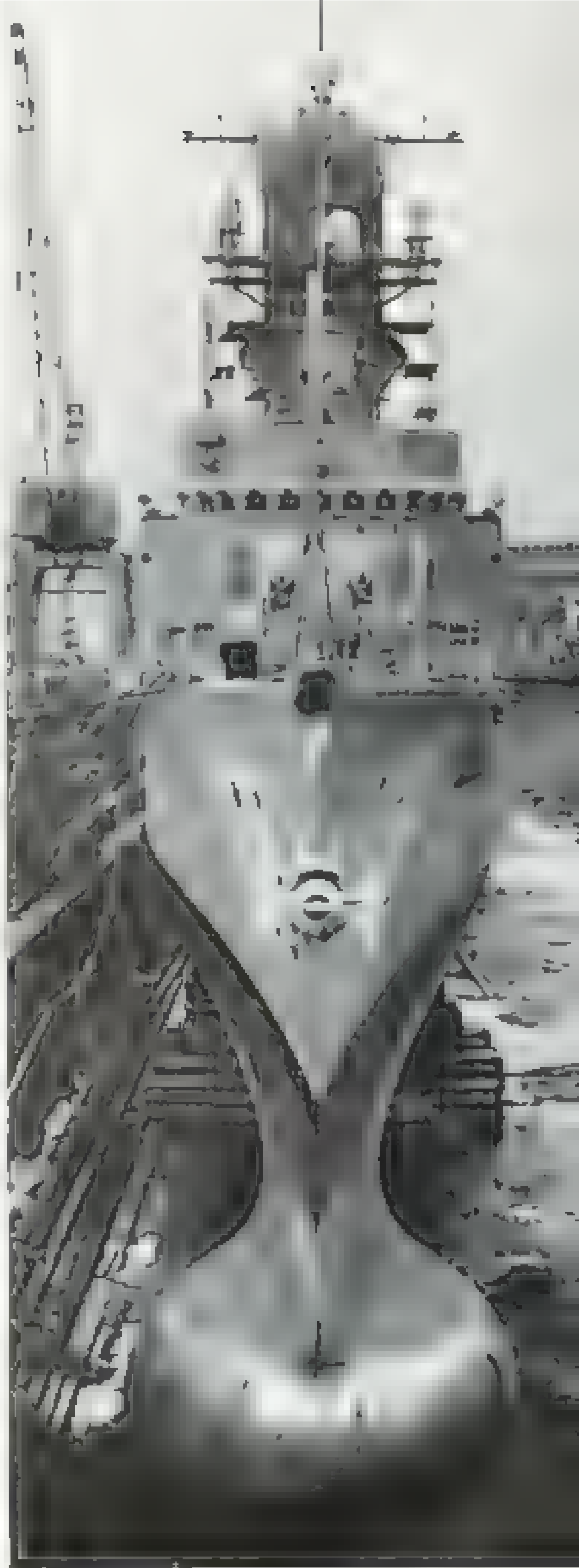
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I don't think that any place on earth today  
is beyond the range of attack from the sky.  
My old friend Rear Admiral Charles R. Linn



(1) ...



**CAT-AND-MOUSE DRAMA** in the Atlantic. Beneath the waves lurks an American submarine, playing the role of enemy. On the surface and in the air, hunter-killer forces tighten the snare. The copter in first round, its downwash ruffles the water, dumps a sonar device that pinpoints the target. Grumman S-2F Tracker flies between destroyers Samuel B. Roberts (left) and Charles S. Perry. A moment later, the second copter drops an exercise homing torpedo. Strike one sub.



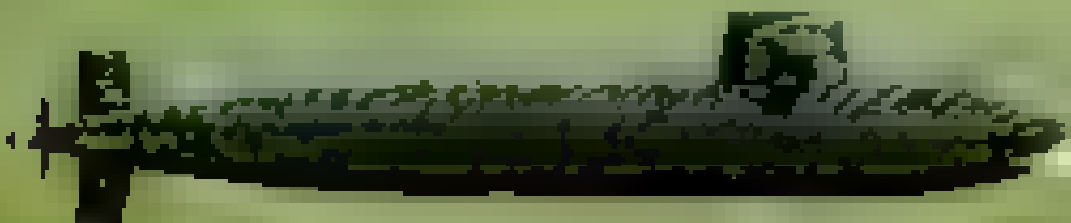


# SUBROC

NAVY'S DEADLY NUCLEAR TORPEDO adds punch to America's underwater arsenal. Its vastly increased range over conventional torpedoes deters the threat of hostile, missile-equipped submarines to the United States and her allies.

Booster-rocket propels 4,000 pound SUBROC at supersonic speed.

SUBROC breaks surface—  
atmospheric flight begins.



Attack type submarine fires SUBROC through standard torpedo tube.



Compressed air heaves SUBROC clear of submarine. Solid fuel booster-rocket motor ignites under water.

one told me. "Almost three-fourths of the world is water," noted the admiral, who is Atlantic Fleet Commander of Cruisers and Destroyers. "Planets from cannon shells launched from ships on the surface or from these can reach anywhere."

At our fleets are assigned to perform several effective actions in the event of a hot war. Besides the attack carrier strike force, the mobile logistic support force, mine and patrol force. It also includes an antisubmarine carrier group, known as a hunter-killer or HUK unit. Another important element is the airborne early warning force, sometimes called the barrier force.

Carrier groups are made up of an attack carrier and antisubmarine carrier groups. Besides providing air defense against attacks from submarines, they carry long-range missiles and heavy guns for shore bombardment.

Each fleet also has a number of submarines. In training exercises they often act as the enemy to furnish the Navy's first hands in fleet antisubmarine actions.

The Navy lays great emphasis on a powerful amphibious force of attack transports, attack cargo ships, landing ships, beach landing craft, and helicopter assault aircraft carriers. It can put Marines quickly ashore anywhere in the world—and sustain them.

How fast can the Marines move? Gen. Wallace M. Greene, Jr., Commandant of the Marine Corps, gave me a good answer. It came from his Okinawa base, the Third Marine

Division, Remained, with its artillery tanks and armor, a great support, can be on its way within 12 hours. Teamed with it in support will be the First Marine Aircraft Wing, based in the western Pacific.

A mobile logistic support force is a vital part of the Navy's power. It carries everything that the warships need—ammunition, and other supplies to the combat vessels (pages 178-9).

Operating in both Atlantic and Pacific from many bases, the airborne early warning group sends out its long-range planes with their powerful radars, to fill gaps in surveillance (page 180).

The mine force is the Navy's most powerful in shallow offshore waters, clearing mined channels while the patrol force carries out its duties in the deep (pages 181-2).

## Fighting Lady\* Hunts Down Subs

To get a taste of antisubmarine warfare I flew to the aircraft carrier *Yorktown*, then serving with ASW Carrier Division 10. The Division is taking part in a Southeast Asia Treaty Organization SEATO exercise code-named, in the South China Sea.

We landed on *Yorktown* in a Grumman C-4A, the Navy's rugged, twin-engine personnel and mail-carrying "carrier on-board carriers" plane, or COB. I have set down in COB's on carriers many times; yes, and seen

\*The name of the ship is not to be used in this article. The ship is a member of the Navy's fleet.

Long range sonar locates and tracks enemy submarine. Fire control system aims the warhead and sets SUBROC on flight path.

Rocket motor's reverse thrust system separates booster from warhead.

Depth bomb allows boat to course toward target.

SUBROC plunges into ocean and penetrates to a calculated depth. Its nuclear warhead detonates and destroys the enemy submarine.

Long range sonar locates and tracks enemy submarine. Fire control system aims the warhead and sets SUBROC on flight path.

Rocket motor's reverse thrust system separates booster from warhead.

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Rocket motor's reverse thrust system separates booster from warhead.

Depth bomb allows boat to course toward target.

SUBROC plunges into ocean and penetrates to a calculated depth. Its nuclear warhead detonates and destroys the enemy submarine.

Spent motor falls into sea.

As a former *Forbes* editor, I found that Asch's book, *How to Succeed in Business Without Really Trying*, is modern technology can make it. The story *War & War II* is a classic.

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## Chinook Helicopter

The Chinook helicopter is a medium-sized helicopter that is used for a variety of tasks, including transport, search and rescue, and medical evacuation. It is known for its ability to land and take off from small, unimproved areas, making it a valuable asset in many environments.

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er under water than on to

... it back and goes up. Two "men-  
men" crew sit side by side like an air-  
craft's pilot and copilot.

... standing in the conning space with ...  
William W. Helms, Jr. ... at ...  
... We barked at ...  
... that at times I felt to bang on the

... The rain ...  
... a great off ... sound at ...  
... fore and then beneath ...

... the loudspeaker  
... the double. The ...  
... "Fire" ...

... to me. The ...  
... I ...  
... to Commander Benson.

... one drill ...  
... "Her

...  
... during an emergency. We ...  
... officers and men found the ...  
...

... where I had started ...

... to bed with new respect for  
... wear the ... of the subject.

#### Polaris: Breadbasket of Submarines

... like *Skiffrock* boast a  
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... nuclear engines, less the striding power  
... of their nuclear ...

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... that you squeeze through narrow ...  
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... B. Wilson, the skipper, and his officer

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... A ... Polaris submarines authorized ...  
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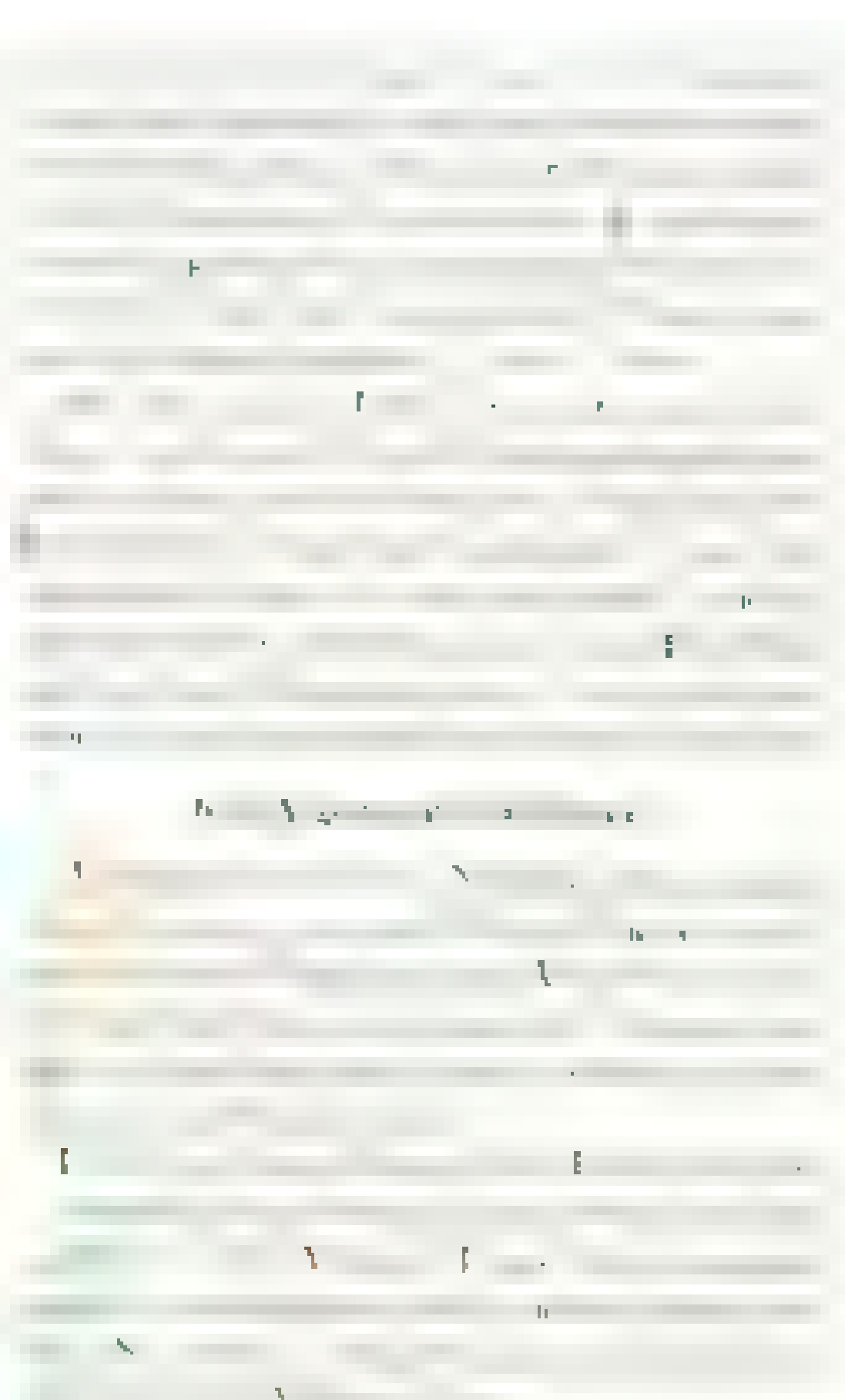
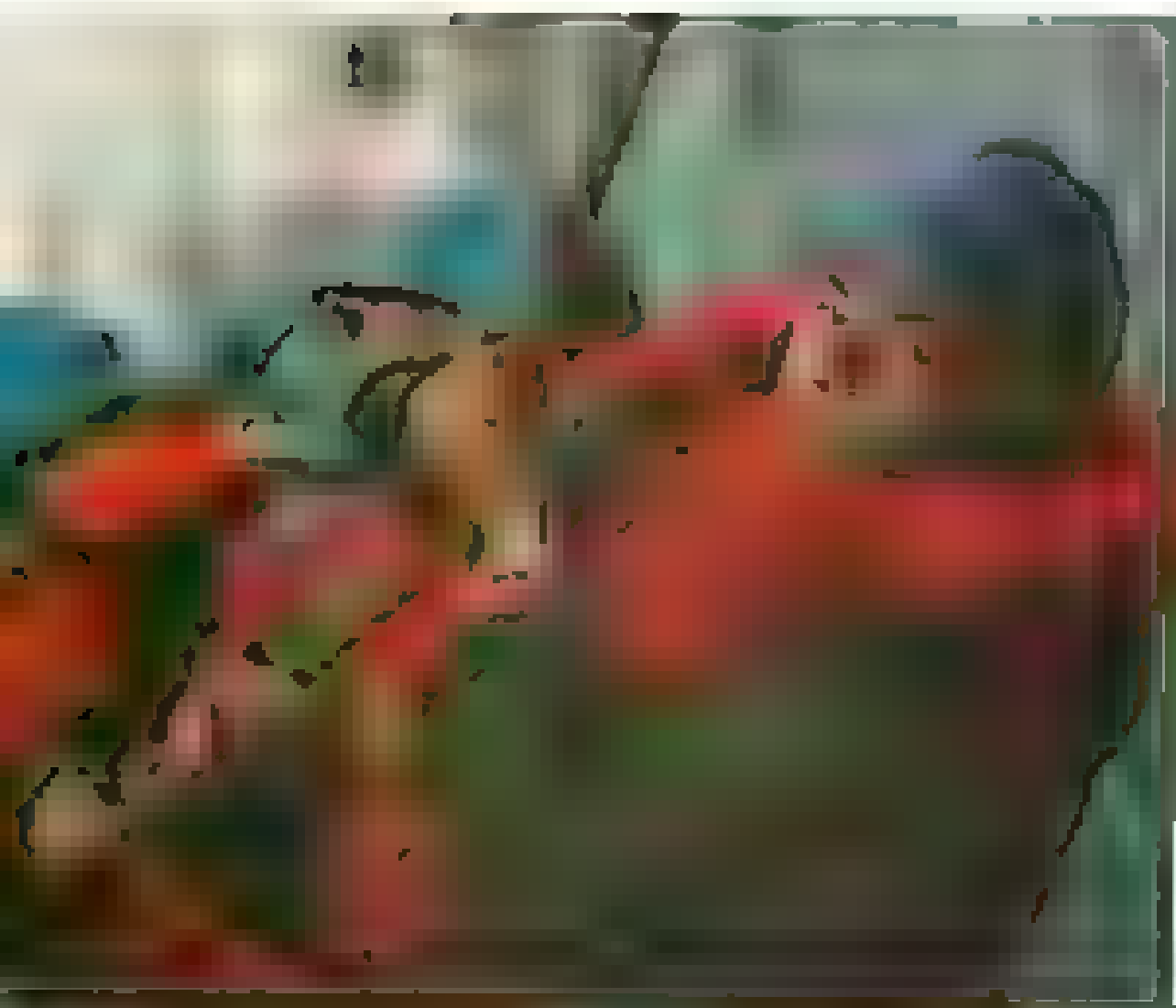


... I saw ... move ... I was ...  
...  
... leaving this Marine, "an enemy ...  
...  
... the soldier wiped ... the ...











On Sunday, 15 September 2013, I saw a  
 \_\_\_\_\_

Many's first reaction during the first few obstacles, then

el to head waters communities directly, a  
city department head responsible for water se-  
wer collection and treatment  
to be with the fleet at any

Improving operations, the U.S. and World War II Marines had previously done it. This sort of airborne assault was

The L.L. BROWN COMPANY, 1001 Madison Avenue, New York 17, N.Y.

Students in rural and out State are using the money they received at the General and Temple Warfare Schools in Okmawa.

Seitdem hat sich John L. Hart mit einer Reihe von

1. 14. 1994 15. 1994

The online Mattress Shop. We were  
a lot better off. I heard its computer  
system

[illegible]

## Marine's Tongue (see Legend 4-4)

I found the water very warm  
in the middle of a rocky stream, where  
there are holes, covered by pebbles and  
small stones. The water is very warm  
and the stones are very hot.

[illegible]

her to do so. He asked her to "do it" the better way.

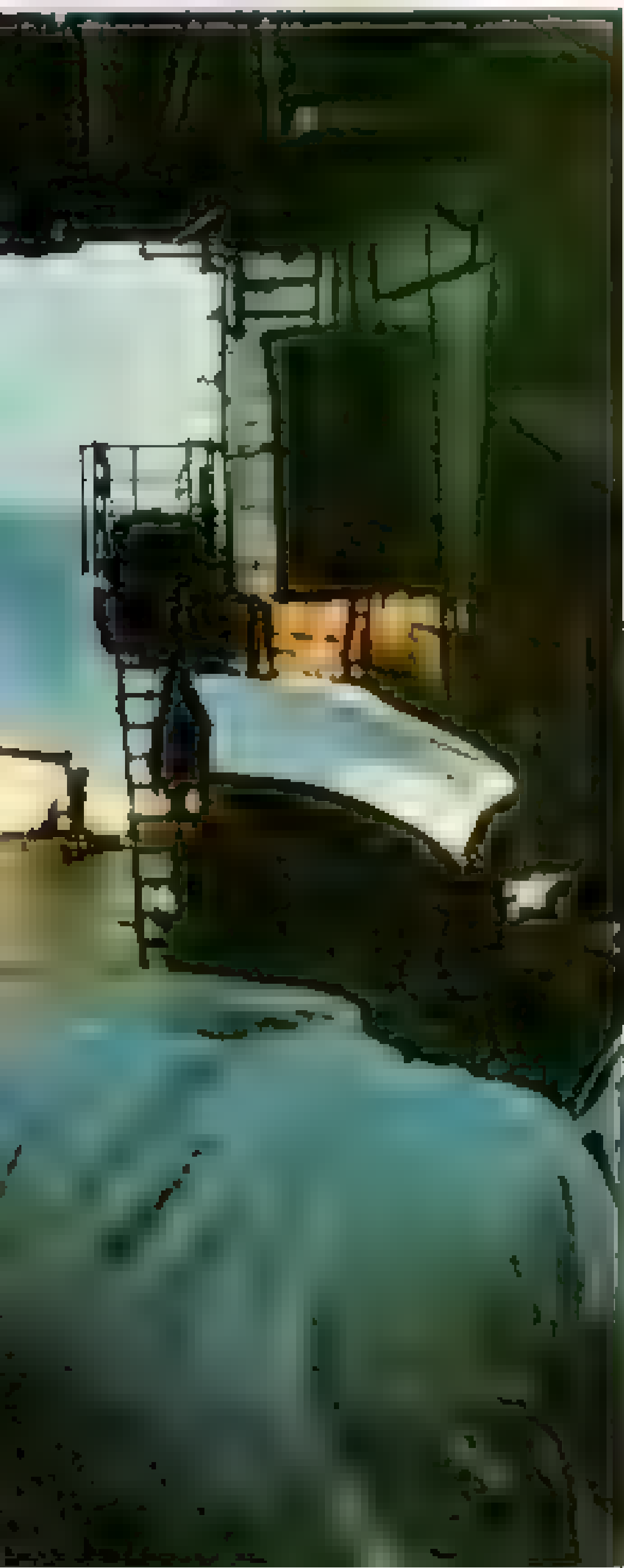
As we sloped through green and brown hills, we saw a few small, white flowers growing in the grass. The stream was











1. *Thyridopteryx* (1892) *Thyridopteryx* (1892) *Thyridopteryx* (1892)

1. The first part of the document is a title page. It contains the title "THE HISTORY OF THE UNITED STATES OF AMERICA" and the author "BY JAMES MADISON".

2. The second part of the document is a preface. It contains the text "I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration."

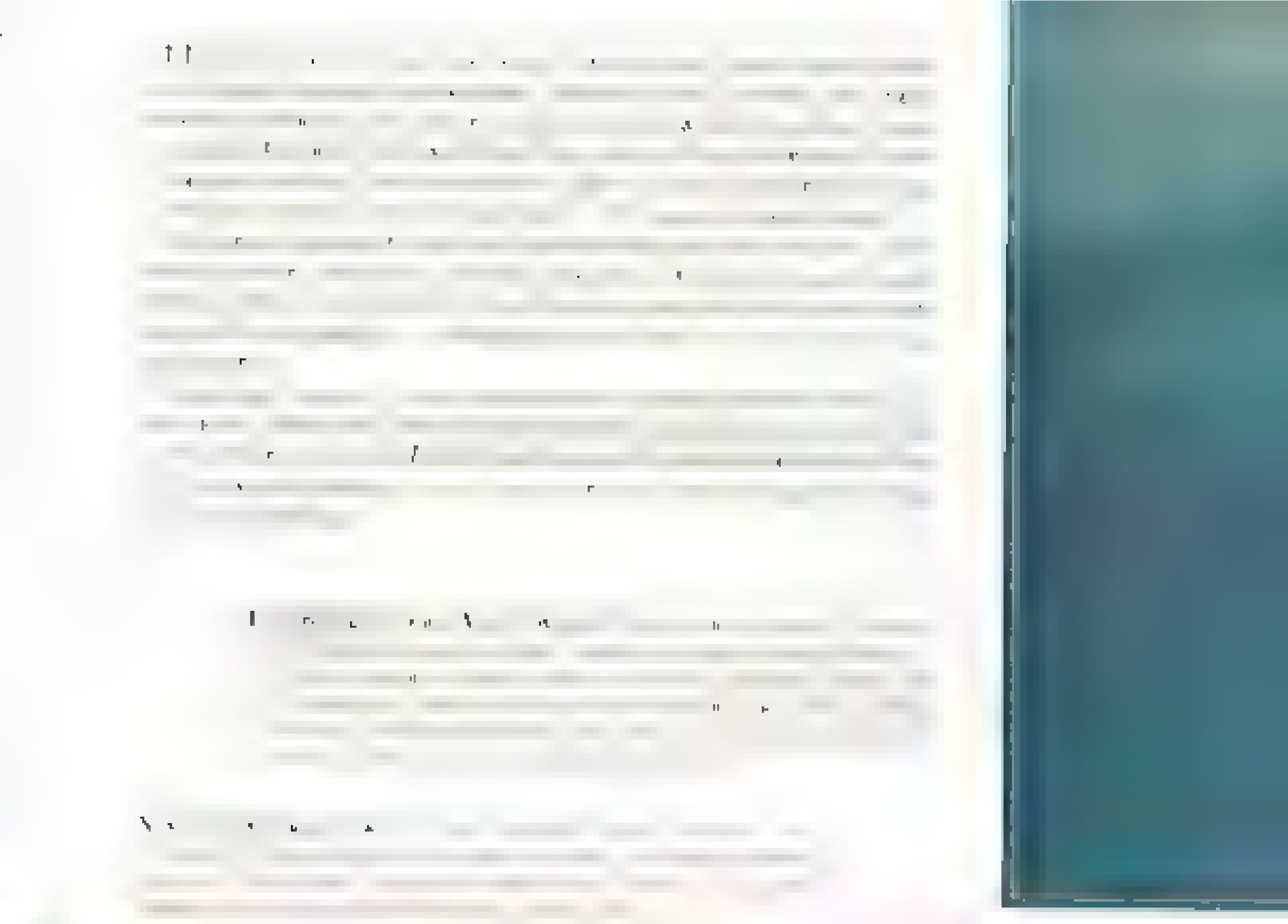
3. The third part of the document is a table of contents. It lists the chapters and their corresponding page numbers.

4. The fourth part of the document is the main body of the text. It contains the history of the United States of America.

5. The fifth part of the document is a conclusion. It contains the text "I have the honor to be, Sir, your obedient servant."

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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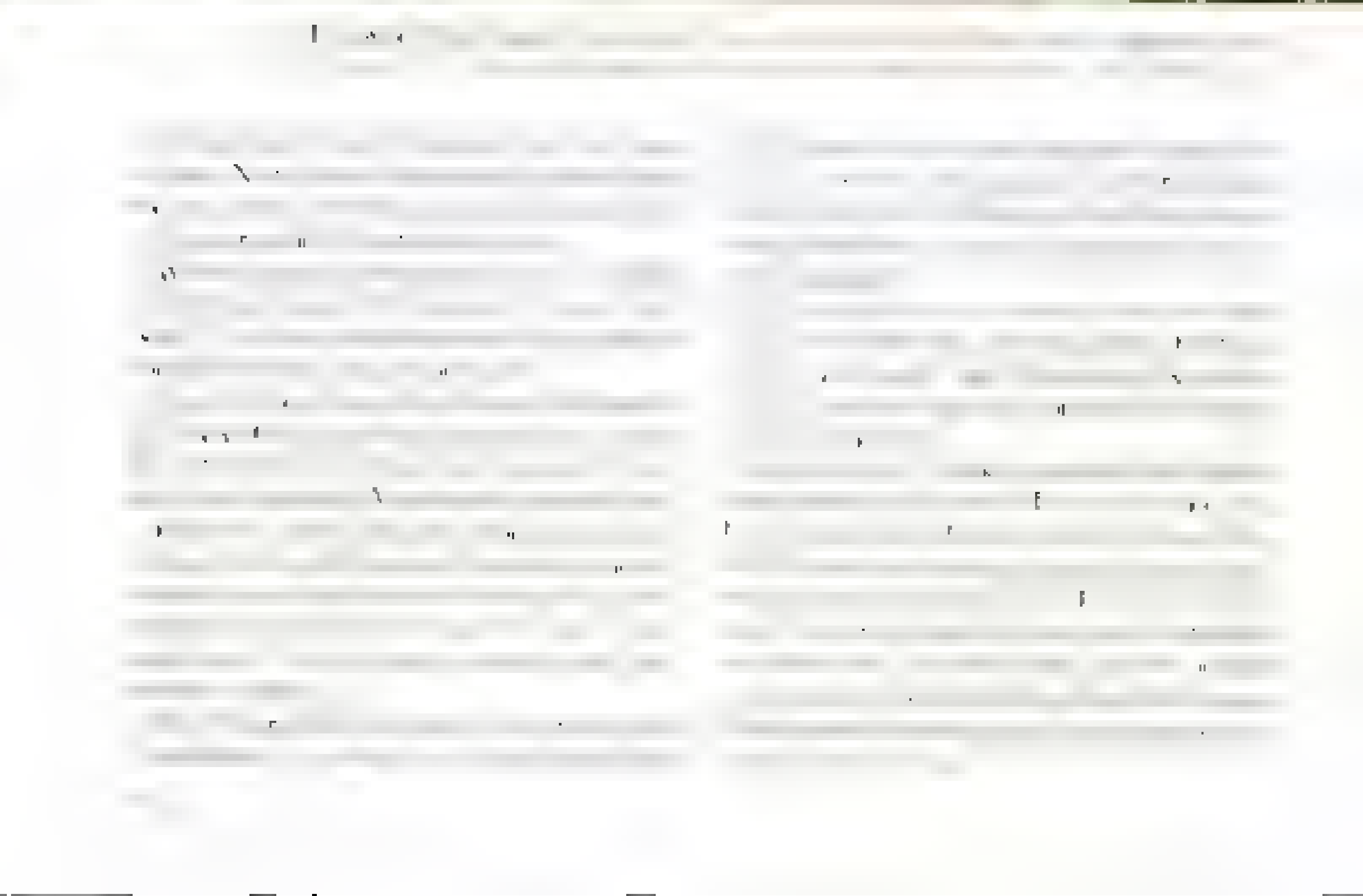


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### • Learning Objectives

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1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$







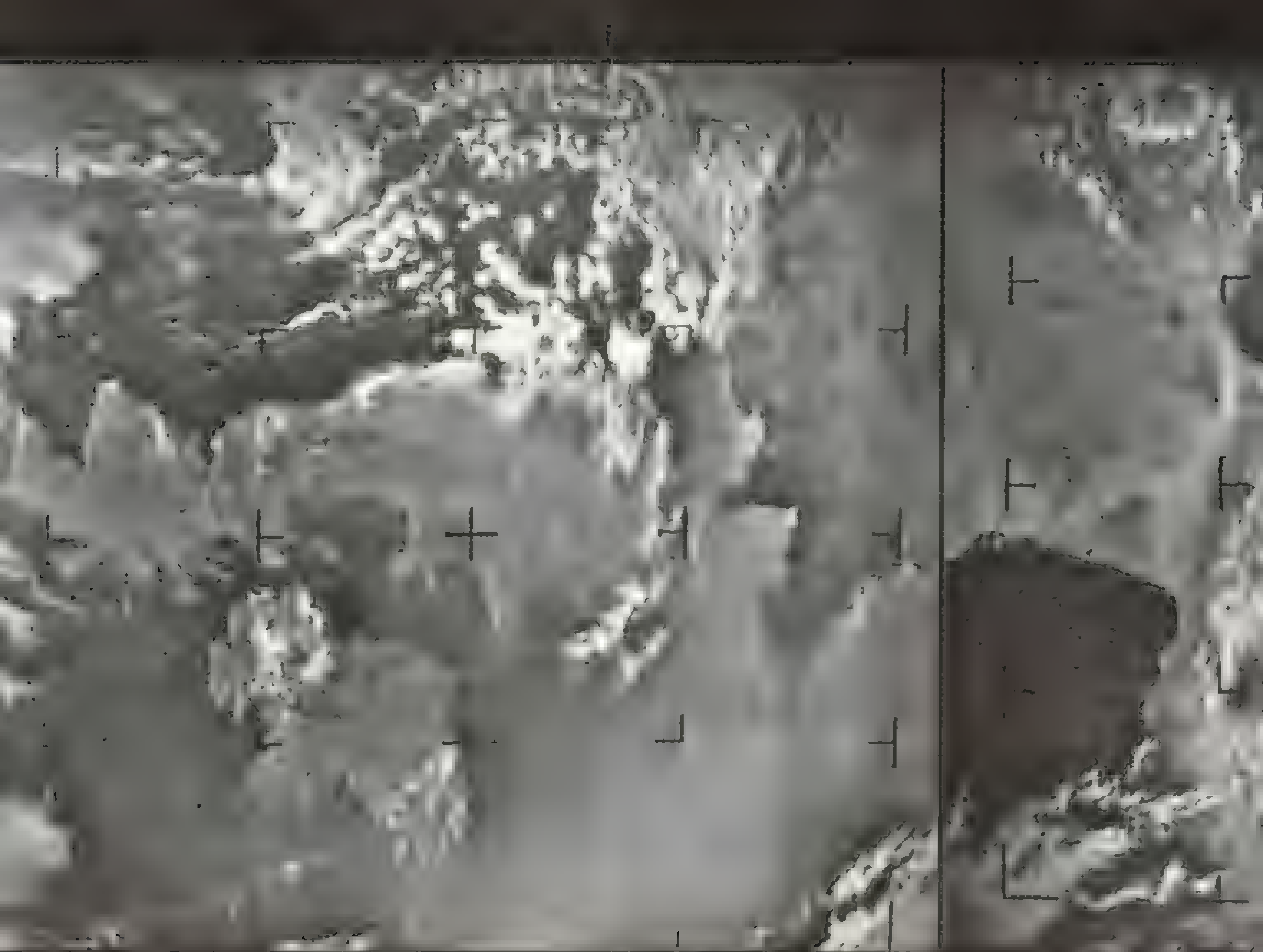
<sup>3</sup> <http://www.fishbase.org> accessed 10/25/04





Extraordinary Photograph Shows Earth Pole to Pole

B



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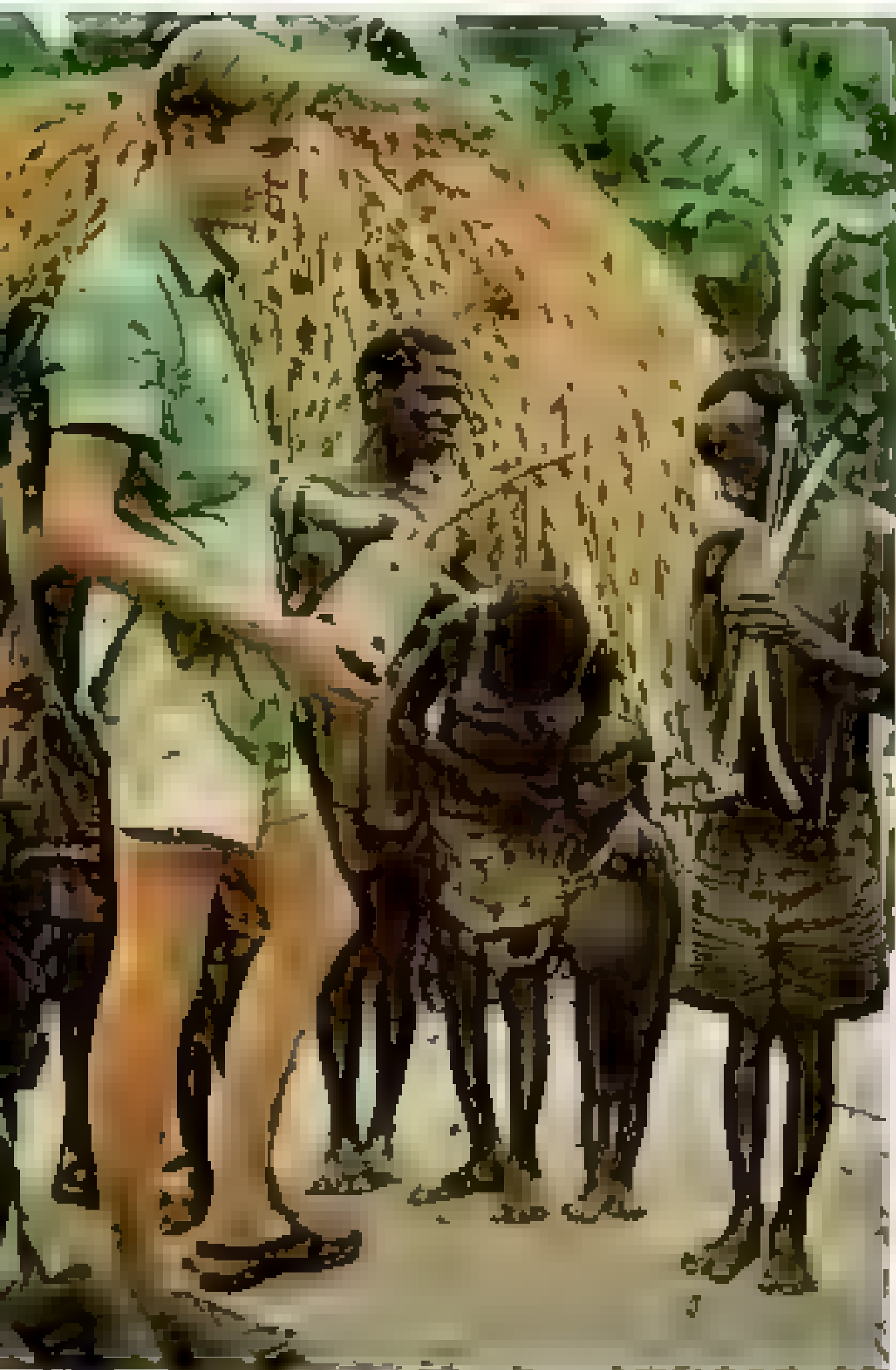
## The Leukeys of Africa

# FAMILY IN SEARCH OF

מ. ד. נ. ו. ז. ח. ט. י. יא. יב. יג. יד. טו. טז.

The first part of the paper discusses the importance of the
 *Journal of Management Education* in the field of management
 education. It highlights the journal's role in providing
 a platform for the dissemination of research findings and
 the advancement of the discipline. The second part of the
 paper focuses on the journal's commitment to diversity and
 inclusion, emphasizing the need for a more equitable and
 inclusive research agenda. The third part of the paper
 discusses the journal's efforts to promote the use of
 research in management education, highlighting the
 importance of evidence-based practice. The fourth part of
 the paper discusses the journal's commitment to
 transparency and accountability, emphasizing the need for
 open access and the sharing of research data. The fifth
 part of the paper discusses the journal's commitment to
 the future of management education, highlighting the
 need for innovation and the development of new
 research paradigms. The final part of the paper
 discusses the journal's commitment to the management
 education community, emphasizing the need for
 collaboration and the sharing of resources.

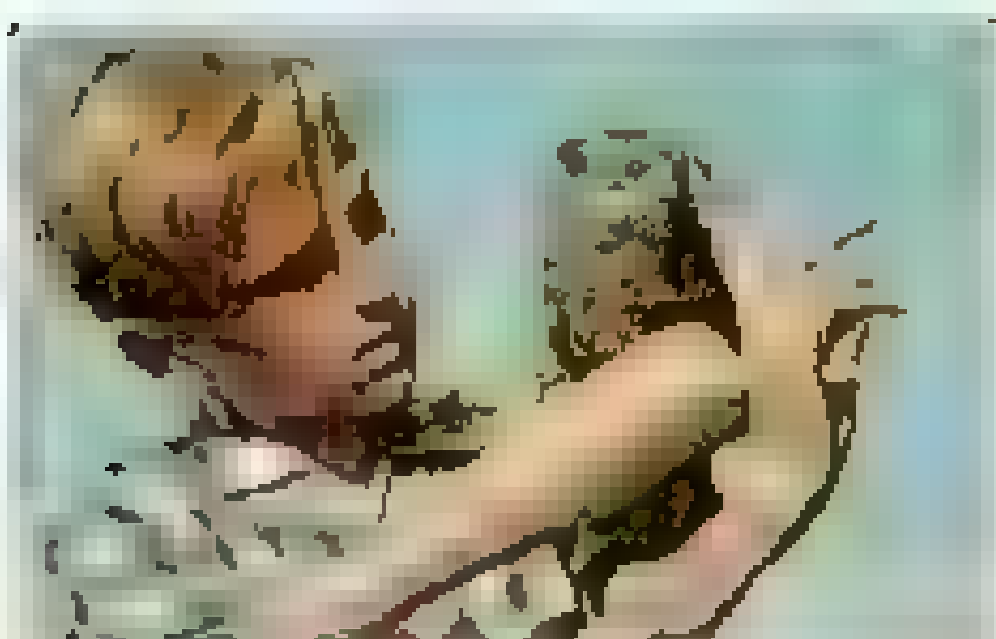
**F** R I E N D S H I P



By MELVIN M. PAYNE, Sc.D.  
President and Secretary, National Geographic Society

# PREHISTORIC MAN

## A Man From History



fossils unearthed by the Leakeys—*Proconsul*, *Aegyopithecus*, *Zinanthropus*, *Ilomo* fossils we know much more about the dawn

few years ago

So rapid and so significant are these contributions to knowledge that they have virtually doubled the amount of prehistoric knowledge in the last 10 years.

and many scientists now believe to be a precursor of modern man—*Homo habilis*—and that it may be every existing

“... only a few pointers.”

I once questioned Louis concerning the state of disagreement among scientists engaged in prehistoric research.

“I think it is a very common thing to find a man who is a very good

discarded concept—a variety of human fossil remains and the necessity for finding human species extending through hundreds

period of interpretations. But this is all we have to work with. We must make the best of it within the limited scope of our knowledge and experience.

### Scientist Grew Up a Kikuyu

“... day appreciating as we do the

Leakey's lack of a... But all that doesn't

them toward their readers.

distant past. Had Mary Leakey

induced to prehistoric caves in

Lamara of France when she was

... to the ...

... to the ...

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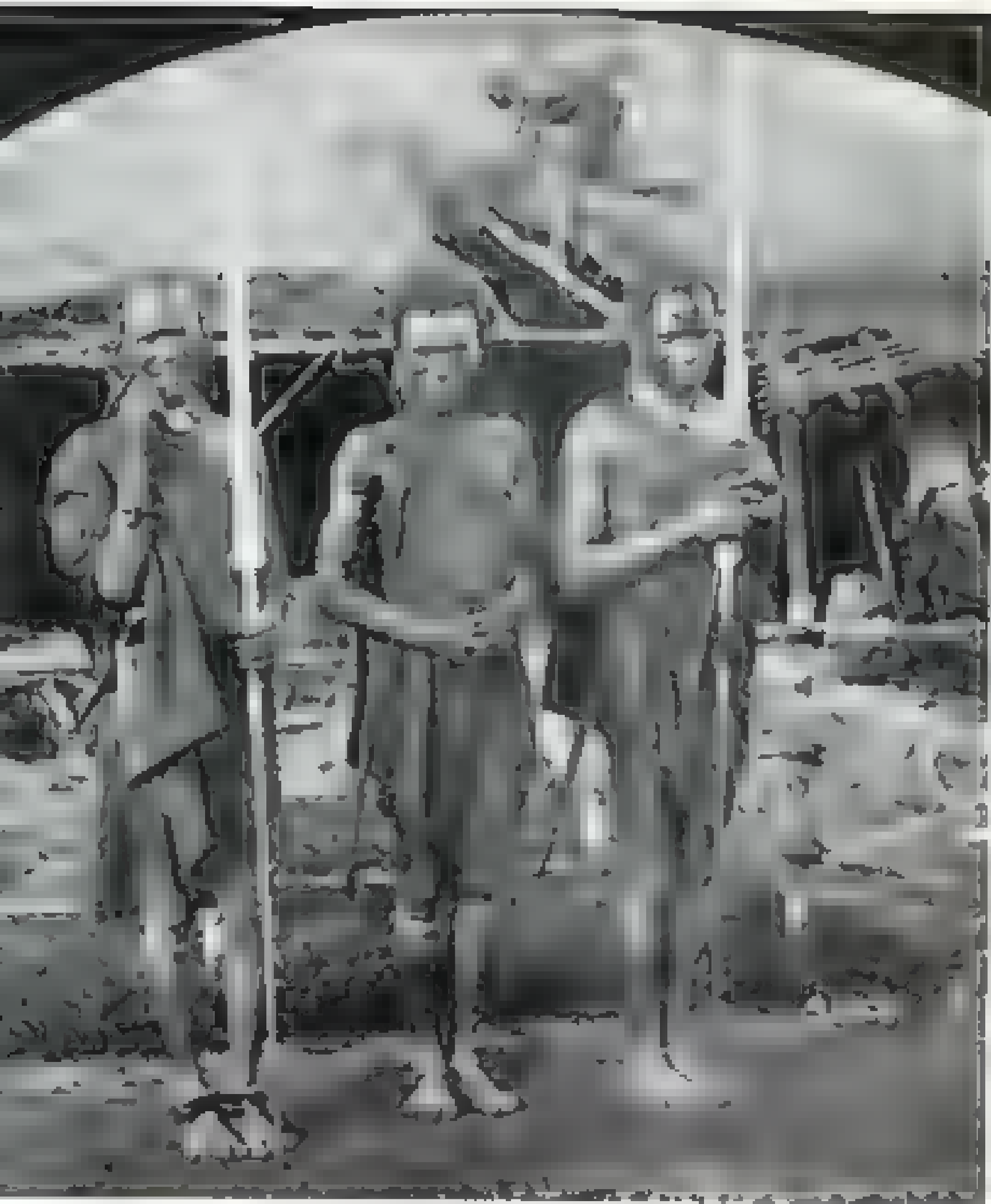




Department of the Interior

U. S. GEOLOGICAL SURVEY

WATER RESOURCES DIVISION



My first day at school  
I was very nervous  
but I soon  
found my friends  
and we had a  
very good time  
all day long

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all day long





Nelie, however, determined not to stop for trackless miles into the interior of Africa to seek their home and to return. Her husband, however, put her off repeatedly. Eventually Nelie told him that "I will go home."

"I am very sorry," he replied with excessive courtesy, "but you cannot."

He got left in a lurch and he heard nothing of the adventures of one day. A long assist of burst in his office. "I received news," Mrs. Hazett has hired porters and set out for the interior. We must overtake her."

"No," smiled the commissioner, wise in the ways of Africa. "We can't leave her alone for a day or two she'll be back. And our little problem will be permanently solved."

He never saw Nelie again. Six days later she was in England.

### Mary Clark Hazett's Away Days

"But Nelie," remarked the commissioner, "explained that her only weapons on the safari were an umbrella and an ammunition. She'd set the clock at two-hour intervals, bringing out the night. She reckoned that."

As the commissioner had been thinking that, and which had been the meaning of the "away" word, he'd been off. At the way to Uganda she stayed in without her.

In time Mary Hazett, making her own way, was left in the bush. The "away" word was not her. She must have at least been in and never return. Africa would surely know what she stayed.

She did what she could. She was left in the bush. "She went back to England where he soon repaired her health and married her for most many years later. In 1902 they both came back to Africa. She lived in Kenya, and she died fifty years after."

Through the darkness of the night, the white light of the East African

night, the Leakey family were unfolded.

Lord's parents, Harry and Mary, took over a bunch of English mission. The Leakey family came from a long and distinguished family. They came to work among the Kikuyu, Kenya's largest tribe. And then in August 7, 1903, was born their first son, Lord's Seymour Bazett Leakey.

Word of his birth spread quickly, and the Kikuyu, tribal elders called. They gathered solemnly about the cradle and spit on the new child as a gesture of trust.

The Kikuyu, explained, "because

that to make a good of another person, a person of a kind."

Against the background of the day, the day were put in the day of my heart.

The day, the day of the day, the day of the day, the day of the day, the day of the day.

The British, however, were in Kenya, speaking Kikuyu, speaking to Kikuyu, speaking to Kikuyu.

When the first day saw to the first day.



On a dinosaur dig in 1904, the Leakey

family expedition.

It was the day of the day.

### Some of the Leakey Family Shows Wares Manufactured 200,000 Years Ago

A new find in 1904, the Leakey family, the first known living site of the day.

At the moment, the Leakey family, the first known living site of the day.

At the moment, the Leakey family, the first known living site of the day.

At the moment, the Leakey family, the first known living site of the day.

At the moment, the Leakey family, the first known living site of the day.



He was a warrior, but through a  
 so fast that stories  
 that of each them with his hand  
 by the time he was 13 years old he had  
 known the others" and even in it whenever  
 his parents allowed

### Secret Oath Protects Tribal Ties

But even Mary doesn't know the details of  
 the oath. "They made him  
 swear an oath of secrecy," she said, "and even  
 during the years of the Mau Mau rebellion in  
 Kenya, when it wasn't very popular to be a  
 Mau Mau fighter."

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word and never described the ceremony. As  
 far as I know, he's still the only white man  
 who's been a Mau Mau fighter."

"Of course," she smiled. "He's no longer a  
 warrior. He's become an elder now."

He was a warrior, but through a  
 so fast that stories  
 that of each them with his hand  
 by the time he was 13 years old he had  
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## Hand axes

Hand axes are a type of stone tool that has been used by humans for thousands of years. They are typically made from flint or other hard stones and are shaped into a teardrop or leaf-like form. Hand axes are used for a variety of tasks, including cutting, scraping, and chopping. They are often found in archaeological sites and are considered to be one of the most important types of stone tools.

## Hand axes and flint

Hand axes and flint are two types of stone tools that have been used by humans for thousands of years. Hand axes are typically made from flint and are shaped into a teardrop or leaf-like form. They are used for a variety of tasks, including cutting, scraping, and chopping. Flint is a type of rock that is hard and brittle, and it is often used to make tools. Hand axes and flint are both important types of stone tools.



## Hand axes and flint

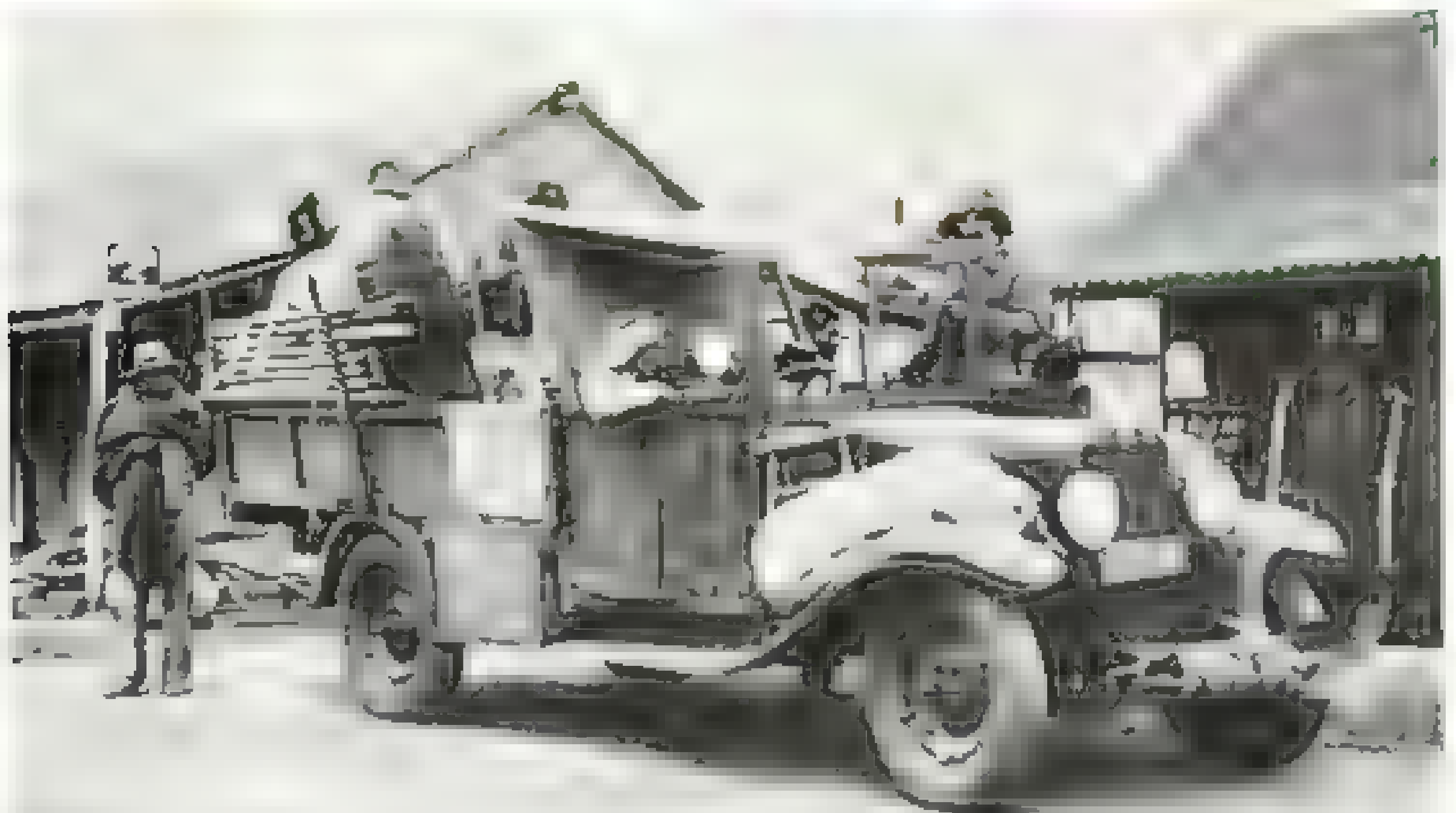
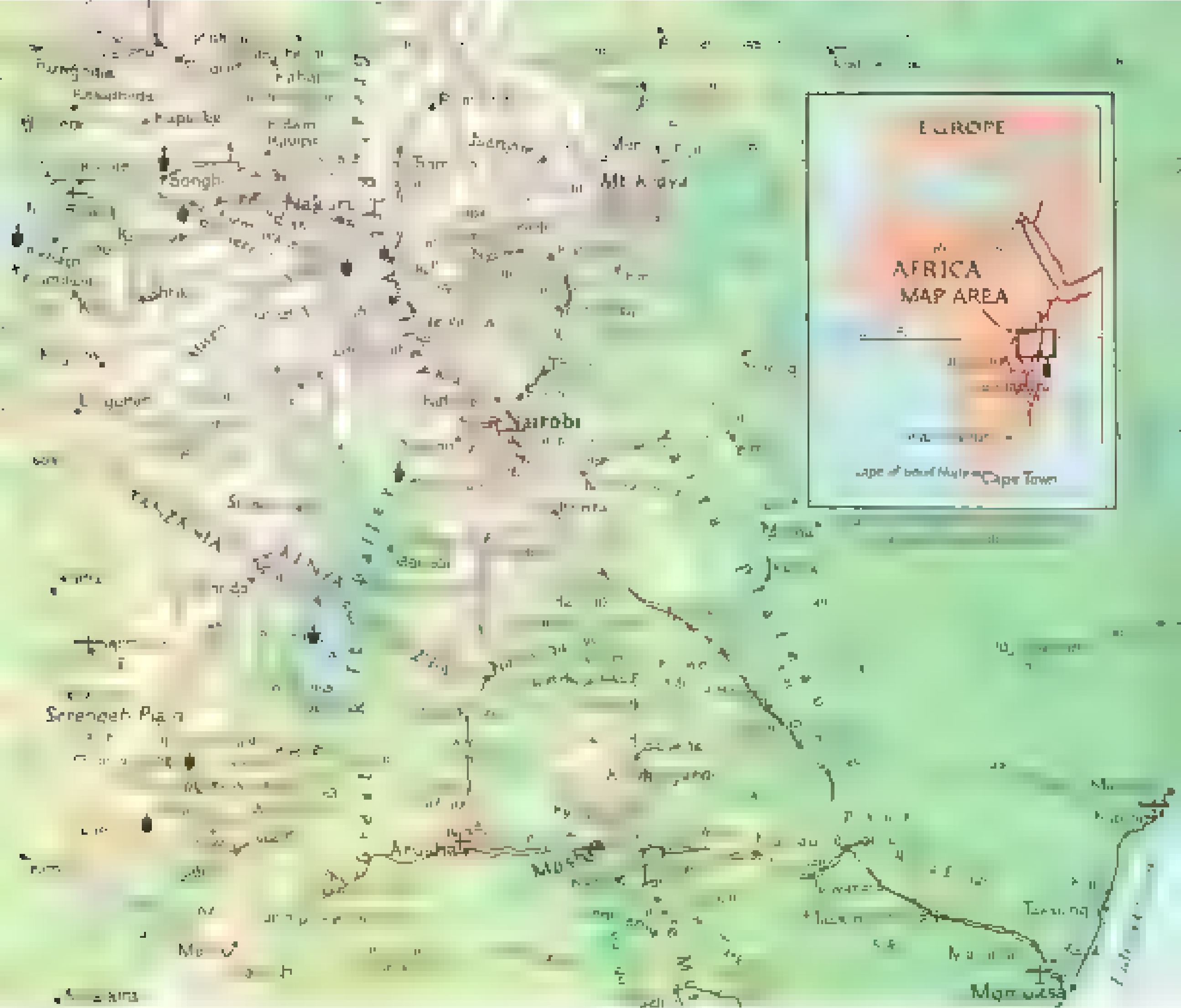












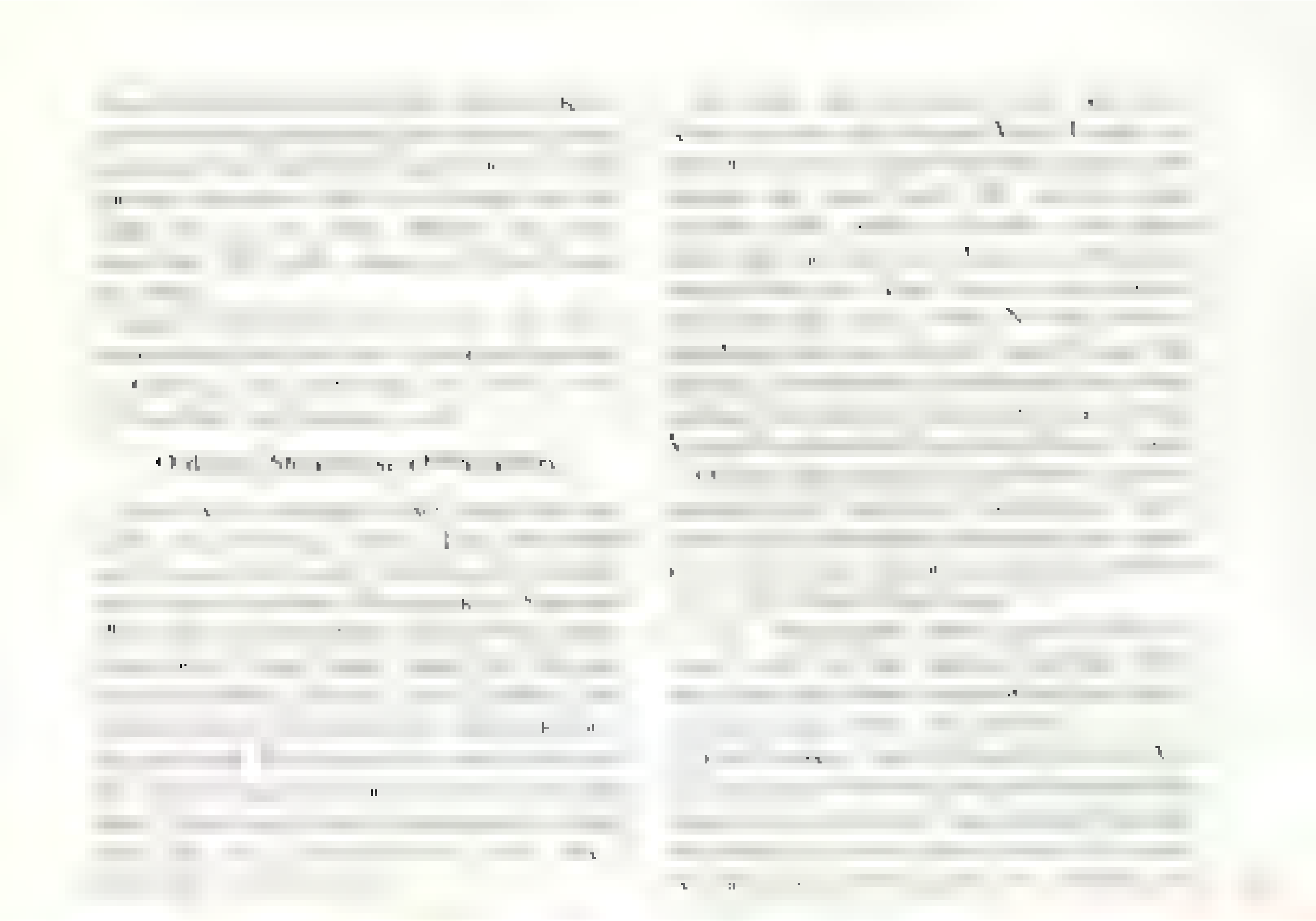


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At the [illegible] [illegible]

The [illegible]







...and the ... establish effective ...  
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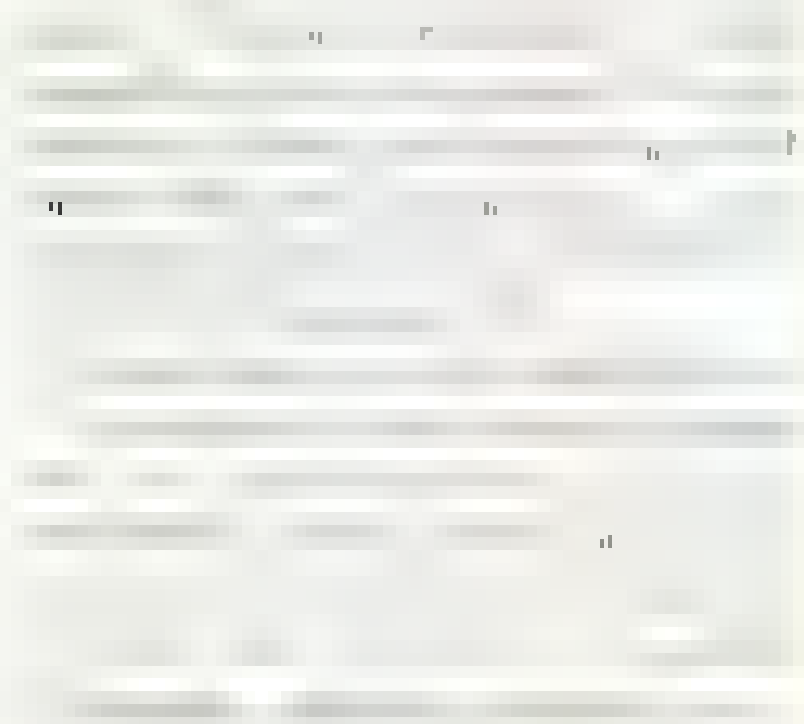
#### ... a Big Cat & Mud

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... there they are," Louis picked up her ...  
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 ... just at that moment another car came ...  
 ... sight ... the driver blew his horn. The ...  
 ...  
 ...

Be ... the bottom ends of the ...  
 ...





1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

*(The page contains faint, illegible markings or bleed-through from another document.)*

1. The first part of the document discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes the need for regular reconciliation and the use of reliable accounting software to ensure data integrity.

2. The second part of the document outlines the various methods for calculating the cost of goods sold (COGS) and the resulting gross profit. It compares the FIFO, LIFO, and weighted average methods, highlighting their respective advantages and disadvantages in different market conditions.

3. The third part of the document focuses on the calculation of net income, taking into account all operating expenses, depreciation, and interest. It provides a detailed breakdown of the income statement, showing how each component contributes to the final net income figure.

4. The fourth part of the document discusses the importance of understanding the tax implications of various business transactions. It covers topics such as the deductibility of expenses, the treatment of capital gains, and the impact of different tax rates on the overall profitability of the business.

5. The fifth part of the document provides a comprehensive overview of the financial statements, including the balance sheet, income statement, and cash flow statement. It explains how these statements are interrelated and how they provide a complete picture of the company's financial health.

6. The sixth part of the document discusses the importance of budgeting and financial forecasting. It outlines the steps involved in creating a budget and how it can be used to monitor the company's performance against its financial goals.

7. The seventh part of the document provides a summary of the key points discussed throughout the document. It reiterates the importance of accurate record-keeping, proper calculation of costs and profits, and a thorough understanding of the company's financial statements.

8. The eighth part of the document provides a list of resources and references for further study. It includes links to relevant websites, books, and articles that can provide more in-depth information on the topics discussed in the document.

9. The ninth part of the document provides a list of frequently asked questions (FAQs) related to the topics discussed in the document. It aims to address common concerns and provide clear, concise answers to help readers better understand the material.

10. The tenth part of the document provides a conclusion and a call to action. It encourages readers to take the time to review the document carefully and to apply the information provided to their own business operations.



February 2002

1 2 3 4 5 6 7 8 9 10 11 12





Mary Leakey's daughter, Mary

Small rodent and bird bones



Mary Leakey's African crew sits

The first of the bones found in the  
 1960s was a small, dark-colored  
 rodent, possibly a shrew or a similar  
 small mammal. It was found in a  
 hole in the ground, and its presence  
 was a surprise to the researchers.  
 The second bone found was a  
 small, dark-colored bird bone, also  
 found in a hole in the ground.

The discovery of these bones led to the  
 theory that the mystery of man's past would  
 be unraveled here in Africa. So, the future  
 of the world's oldest human history

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 The second bone found was a  
 small, dark-colored bird bone, also  
 found in a hole in the ground.

Student Chosen to Examine House

French presence no hindrance to this  
 variety, but the French government



Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

with the course. The London institution

[illegible]

clear and I did not find out later exactly  
whether or how many in your party were  
arrested or run through hand one  
time. He was a young man, about 17 years old,  
and was very friendly.

A combination of a good weather, and  
which was him in Tangaroka but he  
was open to see on his knee side."

is known to be true. It is not clear that the requirements for  $\vdash$

... an expectation of ... for early man  
... early culture. He told me the story

“I hope the court will be guided by a Cambridge professor’s asked.”

"To East Africa," Lewis answered.  
"Don't waste your time," the professor told  
him. "There's nothing of significance to be  
found there if you really want to spend your  
time profitably."

but  $\text{Log}(\text{ret. level}_t - 1)$  was highly significant

I said: No, I was born in East Africa, and I've already found traces of early man there. Furthermore, I'm convinced that Africa, not Asia, is the cradle of mankind.

own expedition and collected the aid of a former (now student) Imperial College professor in order to raise money for two thirds of the necessary large East Africa

### Young Women at Lakes First Church

and Fred was seen to be as white as a first-year Lake Nakuru in Kenya and—on other strokes of Leakey's luck—uncovered a stone-age hyena site. Nothing better has ever happened, but a good beginning.

The number corresponding combined the value of East African search findings had Fox, months later and his assistant, their own ethical barrier.



## Discovery of

D

Workers at the plant were told that if some employees had chosen better safety training, they would not have died.

"If we can find it out," he retorted, "it is a strengthening," he was, but the wind kept whistling.

Leakey's car, however, struck again. In 1932, streaming through dense bush at a place called Kariakoo, on a Kenyan heath, he stumbled over the edge of a hidden 40-foot cliff. Peering down, he spotted a black ox protruding from the cliff face. An excavation uncovered a bone—the first ever recognized as a hominid jawbone, in fact, when the finished specimen was shown.

The owner of the site presented it to the public, and it has since been converted into a museum where visitors can see the fossil and a model showing exactly what the creature looked like.

Years later, the same day, a different discovery was made. The specimen was a hominid jawbone, and it was a large one—13 by 14 centimeters. Prof. Hans Reek, the dentist who brought it to Leakey, called it the "king of the

king of the stone tools." Reek realized that although the jawbone itself contained a wealth of natural fossil, it was the wrong place to seek prehistoric man. He himself had searched vainly for signs of a human before he said out with the bones.

But the young fossil hunter persevered, encouraged. Adding together small contributions from several British scientists, Leakey financed a crude stone excavation. The excavations included the famous "Ain E. El-Jarrah" now Sir Vivian Fuchs, who was to gain fame in 1958 as leader of the first expedition to traverse Antarctica (page 24).

"At that time," Leakey said, "the jaw was a big discovery. It required seven months to reach it from Nairobi. Within a few days of getting there, however, it was lost. Yet I told myself that it was one of the most important ones we've since worked in the gorge."

—A. J. A. Leakey, "The Kenyan Fossil Jawbone," *Journal*, 1970

## Homo habilis. Prehistoric jaws tell a tale

remains of a young *Homo habilis* jawbone, the Leakeys announced. It is the first *Homo habilis* jawbone to have been studied, measured, and described, and it is the first *Homo habilis* jawbone.

Consequently, the jawbone is the first *Homo habilis* jawbone to have been studied, measured, and described, and it is the first *Homo habilis* jawbone. The Leakeys presented her by showing it to the public.

The size, shape, and position of the teeth suggest that *Homo habilis* was a small creature. *Homo habilis* may have been the first species, the Leakeys believe, since the brain of *Homo habilis* was the first of the jawbone to have been found, and the first of the jawbone to have been found.

The jawbone is the first *Homo habilis* jawbone to have been studied, measured, and described, and it is the first *Homo habilis* jawbone. The Leakeys presented her by showing it to the public. The jawbone is the first *Homo habilis* jawbone to have been studied, measured, and described, and it is the first *Homo habilis* jawbone.

and through vegetation. In contrast, a modern human jaw has been found.

A skull of *Zinjanthropus* 750,000 years old was found at the site where the Leakeys found the *Homo habilis* jawbone. The jawbone was found in the same place as the *Zinjanthropus* jawbone.

near Lake Naivasha, 55 miles away from the Leakeys' discovery. It is the first *Homo habilis* jawbone to have been found.

The Leakeys then found the jawbone, which was the first *Homo habilis* jawbone to have been found. The Leakeys then found the jawbone, which was the first *Homo habilis* jawbone to have been found.



The twenty years that followed witnessed a continuing exploration of Olduvai gorge. In 1945, Leakey became curator of Nairobi's Coryndon Museum, and the post allowed him little time for field work. Always short of money, Leakey's first wife, Mary, continued to spend a few weeks a year at the gorge. They covered it foot by painstaking bush and vegetation, searching for things.

Not until 1952 did they begin to dig again. And not until the sensational discovery of *Zinjanthropus* in 1959 did Olduvai fully

re-awaken the long harsh years of exile and pain.

"Now, here we are," concluded Leakey. "And thanks to the National Geographic Society we at last have enough money to finance a respectable campaign of excavation."

He glanced at his watch. The point was 10.30 a.m. in the darkness. "Nine o'clock our day begins. It is here first light from the forest, and animals snoring or snoring around your tent during the night, or even

During the World War, Mary Leakey was a nurse. She was married to a doctor, and they had a son, Richard, who is now a geologist.











SAFARI PHOTOGRAPHY

SAFARI PHOTOGRAPHY





father. Mary's great-grandfather, John Freese of Haverhill, Massachusetts, used Stone Age tools for hunting and trapping. "I was born in 1850, and I had taken it for granted that nature had laid them out for me," he said.

[illegible]

## Lecture 1: Early Life in Africa

ted, and I then tea-  
sured over and the lot

ran from East Africa name Long's Creek  
who smoke on his work at the day

The first assumption is that the
   
 second is that the
   
 third is that the
   
 fourth is that the
   
 fifth is that the

— Yes, she is not. They were married  
asked her if she ever regretted ever having  
Miss. She laughed. "That my. My only regret  
and regret is that I did not get more serious  
as had once for one of his best."

snowed us out or with Ann [redacted] A  
were exploring a region off the [redacted]  
[redacted], an Mary Walker [redacted]  
armack. Neither of us had seen th [redacted]  
and it. The first thing I knew Mar [redacted]  
entire life [redacted] [redacted]  
help [redacted] knew [redacted]  
telling in the [redacted]

[illegible]

1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

I think that  
 there is one but a few things  
 in the world that are more like this than  
 the others and I think it is the only one  
 that is so good and so good to the world  
 that it is worth the trouble of finding it.





for all aspects of  $\mathcal{A}$ . With all readers  $f$  by

11. *Journal of the American Medical Association*, 277, 1996, 1033-1037.

...of reaching out our incredible and  
...I attempt to present a

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

Richard was awarded a crew of National

ne of the earliest documents is on *Alph. a. 1*. There

1. **Abstract**

with National Park Ranger Richard Leaver, but the rest of his life in the East Virginia bush. He is an expert in conducting photography. He also likes to go to various places in the world.

Arise in the morning, a holy, happy band

**U.S. DEPARTMENT OF THE INTERIOR**

4 APR 31 1968

24. *Staphylococcus aureus* is a Gram-positive pathogen of humans.

And I can be sure it's there. And you can be

3. **relates to** If small changes result in



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Place a sample in the most appropriate vial

boardman and chief executive officer of the company. If

near Lake Victoria. The messenger was four feet of mud crabs, together known as a crab

[illegible]

It is Bu then Jonathan's friends are not even  
We cleared a way in the center of camp

... to demonstrate the techniques of ... a stage for ... With the be-





Richard told me the story. "When I got to the laboratory, I found Jonathan was making shaky notes all the time on his reactions. He was growing more and more nervous. He was not used to the sensations. And when the monkeys continued nothing but the same old thing, he began to get down everything he could. His heart's beating very fast and he is much more nervous. I decided to be

Both Jonathan and Richard were in the field for several weeks each season here in the mountains. Jonathan discovered the only known lower jaw of *Zinnia thropus* during a reconnaissance west of Tarapur. The discovery was made by Jonathan and Richard, who were directed by Richard and Dr. T. J. K. assistant, Glyn Isaac, continue a National Geographic Society support. To my delight, Richard invited my wife

Richard and I went to the National Park. We were in the mountains.



1897. The first of these was the  
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### History of the ...

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healing res, easily sniffing the air, then he rose to stare at us with eyes that glowed green.

He to the kill of a snipe. I lay next to Richard, gashed toward them with a flash-

darkness.

Suddenly, David (my

W. . . . .

R. . . . .

is, suddenly, leaps fore at the carcass with I could hear the grating of flesh being ripped and the crunching of

I . . . . .

A . . . . .

It . . . . .

the hyenas' dens and their burrow.

In the grown . . . . . tree further back on the knoll its forked

. . . . .

ness to set on the knoll with a faint great brown web.

. . . . . can to drift away, until one three or four returned. Suddenly, all leaped off. A full star

. . . . .

. . . . .

A . . . . .

. . . . . The course, cannot be an actual photograph.

Richard and I walked over to where the blue stood alone on the skyline. The teddy

. . . . .

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. . . . .



High-stepping and haughty, ostrich parents march.

Finley cut out a . . . . .

. . . . .





The jeep of the  
 1st Cavalry Division  
 at the 1st Cavalry Division  
 at the 1st Cavalry Division

The jeep of the  
 1st Cavalry Division




The jeep of the 1st Cavalry Division







W

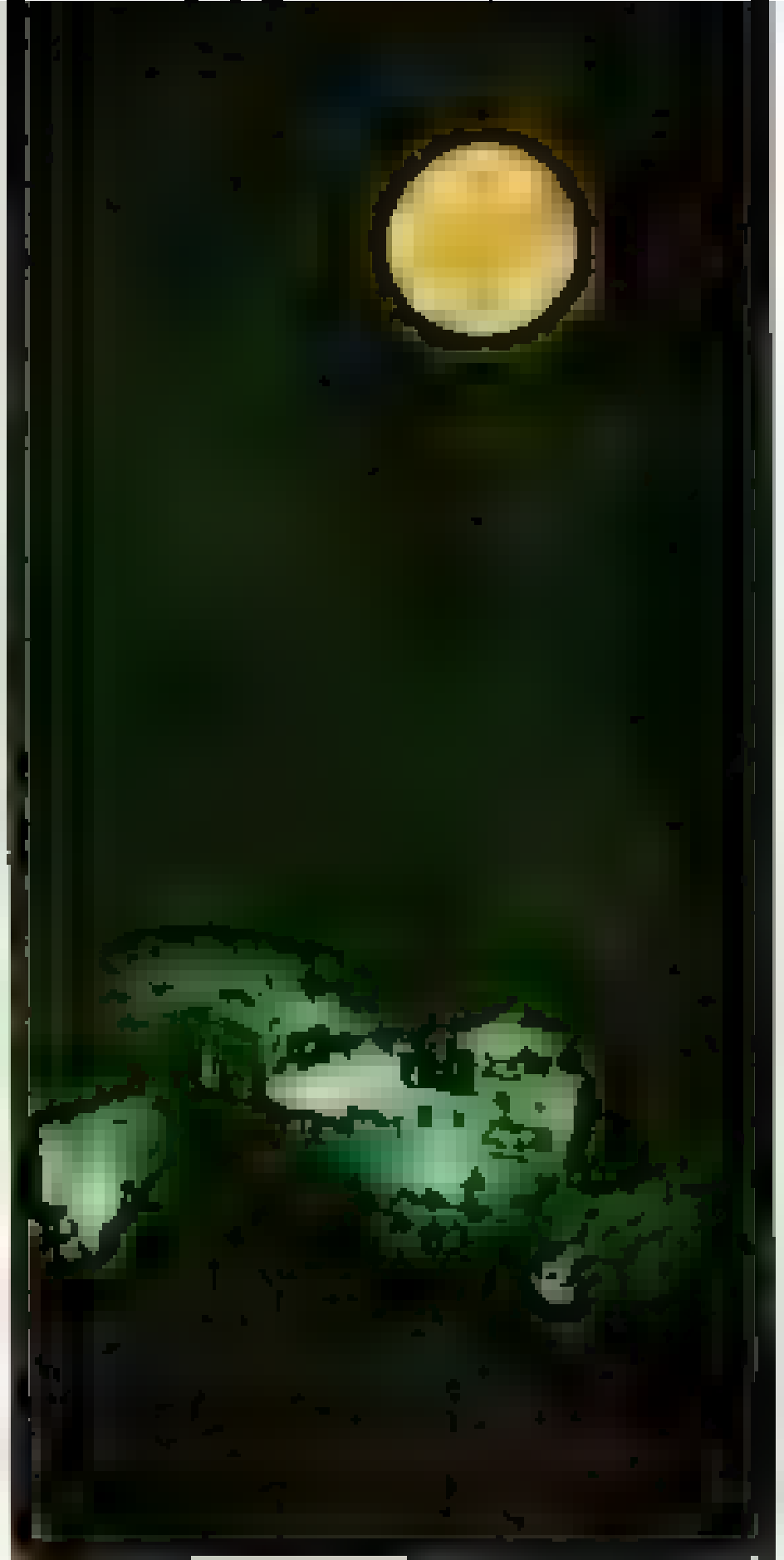


# Time Turns Back in Picture-book Portofino

By CARLETON MITCHELL



**UNITED STATES DISTRICT COURT**



10-11-2014 14:30



AERIAL VIEW OF PORTOFINO, APRIL 1961. THE YELLOW BUILDING IS THE PORTOFINO HOTEL. THE BRIDGE IS THE PORTOFINO BRIDGE.



By the way, the first view of the harbor, as seen from the water.

the terrace of the villa with the three oaks  
under which President Perón used to put his legs also  
of the Villa El Financiero, and not in any of the big events  
in the 1960 Olympic Games. It is not only one of the most  
important monuments, but also a leading Portofino.

Some time ago what was happening to other towns and one  
or two would have been next day the same, the old houses  
were pulled down to make room for shops and  
apartments. But in 1965, the government was persuaded to  
make Portofino a national monument. Anyth-

ing permission often granted," I asked, knowing he was vice  
chairman of the official body that protects Portofino.

"No problem."

Castello Brown and the other two (page 134). If you

the  
the

And what  
with



REACHED BY THE SEA

by the Marine Division (page 134)

Portofino (page 134)

SYSTEMS OF SEA

the Portofino (page 134)

the Portofino (page 134)

he gave an excellent response "for that we already have waiting  
our paper saying 'no

Thus the clock of the Portofino is  
the clock of the Portofino, leaving the village as it was in pre-  
sent times. Not even a shop can be changed until the

the house, where the





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whose back wind comes from the low slopes under the ancient  
 coniferous arches and in the piazzas. In all the involved forecasting  
 and the silence for a while where would they have gone, and  
 what would they have or not done?

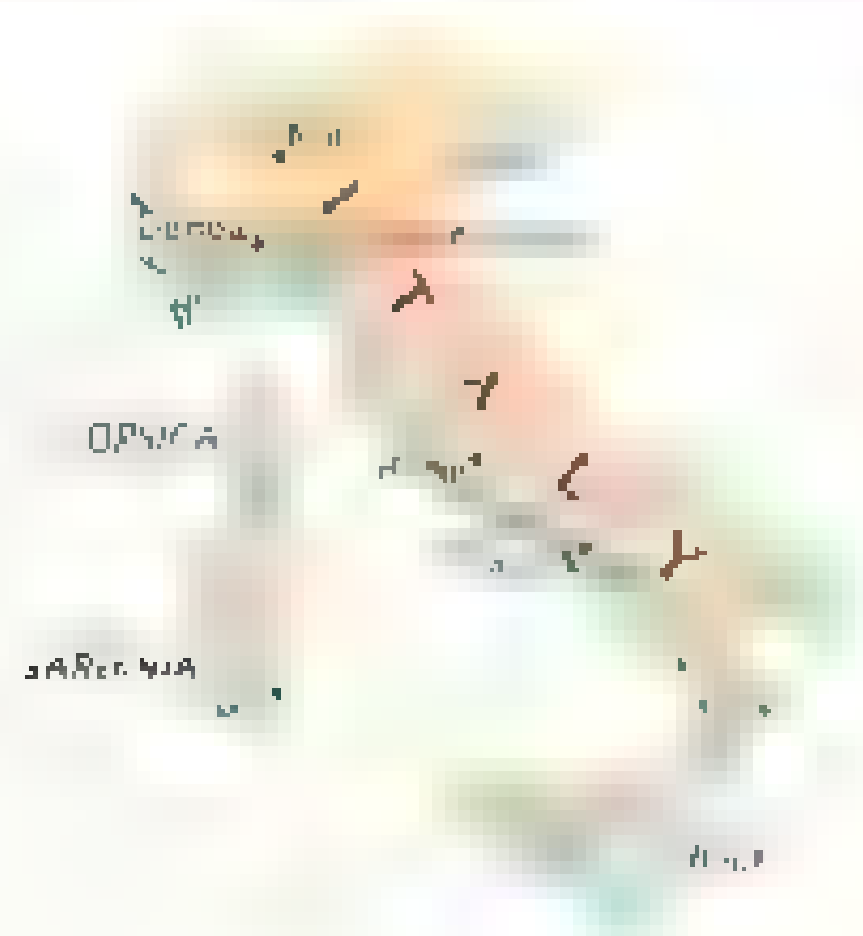
There can be no certain answer to these questions. But it is  
 sure that the townspeople would not be leaving very much as their  
 forefathers. Yet they do. Portofino behind its cypress trees and  
 simple Italian village. Watching I have often seen reminders  
 of an ocean pool. A sports stream in during the late morning and  
 in the night when I walk the tide runs sometimes flood almost  
 overflowing, when it rises the sea to the sky.

With me a day in Portofino, a day so near to many I have  
 spent over the past eight years, and I will try to show you the face  
 of this village as I know it.



**CATCHING THE JEWEL**  
 Each and each kept out corners  
 visitors who love of the  
 off hanging highway from  
 Santa Margherita Ligure  
 and back on the outside of  
 Portofino, but the road  
 with long streets on land

**PIZZA** on the hill, some  
 of villages that run the  
 hills and the sea to  
 Coast of the Bay of San  
 Remo, a few miles  
 and even opposite  
 and Capri, Portofino





I arise early because the town does. The sky is tender to a cloudy pink. Choosing a seat at a table in the corner of the piazza I watch the first rays of the sun add the warm, happy promise of a day to brown white nights and flowers on the shores below. The boats along the quay are like sleeping soldiers. The thin sun finger sweeps the cornice of the harbor to a distance and the signs and faded plaster with the traces of renewed vitality.

Don Mario Buffini is the first of the *mercanti*, the businessmen. He is famous and respected as the great father of his day. His war has not taken him far from home. He is still with it, rubbing the wrinkle in his eye.

"*Buon giorno, signore,*" he calls to greet us. We have been friends since the day when he acted as my water taxi man between *Sansterra* and the city. Now he wears leather suits, white trousers and jet black shoes. He is still the same and still a lippy white tennis ball.

How goes it, Don?

The next day he returns and takes a violent gesture with a pointed finger across the throat. Mario masters the ancient and unimpaired *Alexandrian* method of rowing with oars swept standing up and facing forward, to an unvaried rhythm such as the old man used on the sea. He clears the water as a deadly enemy, and it responds by fearfully going all stroke. As he works away, his bare feet make tiny pattering sounds on the wooden walkway as he passes through the centuries.

AT THE SAME TIME a spider of the sea has begun to swing its web. A small grocery, a small fish market and distribution here. Last week's shape, a head, waxy red and delicious, as if laid out in a dark dye. A green squab is polished the dark green of jade before the art of the arrangement. The *Levantine* flies.

It is the first time the *mercanti* and the *mercanti* are in their place. Very busy, all get the same. A big attention. So does the first of the yellow peaches beside the

the wild sea.

The men stained chocolate brown from a lot of time on the *Levantine* rowing. They are the first of the *mercanti* to be seen. Perhaps beyond. Now the everything else is the same.

The first of the boats are skiddled down the slope from the harbor. The first of the *mercanti* are in the air. The first of the *mercanti* are in the air. The first of the *mercanti* are in the air. The first of the *mercanti* are in the air.

A seven a *mercanti* in uniform. The narrow street hearing the *mercanti*. A *mercanti* is the *mercanti* and stops the chain. *Portofino* is official.



THE FIRST OF THE

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CHILDREN IN THE WATER

The children in the water are playing and having fun. They are laughing and splashing. The water is clear and blue. The children are wearing colorful swimsuits. The background is a lush green forest. The children are enjoying their time in the water.











is the shape of the peninsula but forms the harbor. This end is Castello Brown. The other end is there, under the Church of St. George. You see, the land has exactly the curved form of a dolphin leaping from a wave under the prow of a ship.

He finishes his coffee and rises. "Would you like to walk up to the church? You can see it better from here."

We pass the alley where Maria's fish have now attracted tourists as well as cats and, up a steeply sloped path, shaded and patterned by purple bougainvillea. At the top is a small square in front of a tiny stone church. One side overlooks the town, the other the sea. In the distance, to the west, the sea is blue.

Just over the sea is a white flag bearing the broad red Cross of St. George.

Sailors from Portofino brought back some bones they said to be those of St. George from the Holy Land during the Crusades, explains Signor Gotti. "The relics are still here. Each year the reliquary is carried through the streets, followed by the municipal praying for protection."

Inside the church are two murals showing the conversion of the island to a strong wind for men venturing forth on the sea. Pointing on the wall is a picture of a ship, a sailing ship, a three-masted wheel steamer, beset by monstrous waves or among coral reefs. In one painting St. George is shown looking down from the sky, symbolically slaying the storm. In the other, the saint smooths the stormy waters in answer to prayers.

"Why does the Royal Navy of Great Britain use almost the same flag?" I ask Signor Gotti.

He shakes his head. "Some Genoese say because there were Lusitanian sailors in the fleet of King Charles the Lameheart, who stopped in Portofino on his way to the Holy Land. Or perhaps it was because Genoa was a great maritime power when England was beginning to reveal its. No one rightly attacks the Cross of St. George in Mediterranean waters. Others believe it was part of a commercial agreement, as the Genoese were great traders and bankers."

England, of course, has its own version of the story.

AS HE TALKS, we stroll the piazza in front of the church. The resemblance between the shape of the peninsula and the dolphin. Reluctantly Signor Gotti returns to his office, while I climb the path to Castello Brown, pausing at a big stone wall.

The door is locked. My knock echoes.

Finally a dog barks, and a woman swings back the door a crack. She explains that the castello is not open to visitors, but adds to me when I come home from Signor Gotti. I find a letter on brown stone in a setting of flowers.

Once part of a chain of forts protecting Genoa from surprise attack, the tower was made into a dwelling by an Englishman in the 1850's. His name was Brown, and it has ever since been called by the odd Italian-English mixture of Castello Brown.

Once inside I find the usual hospitality of the Italian. My guide tells me she is the widow of Guido Carluccio, whose family have been custodians of the castle for three generations.





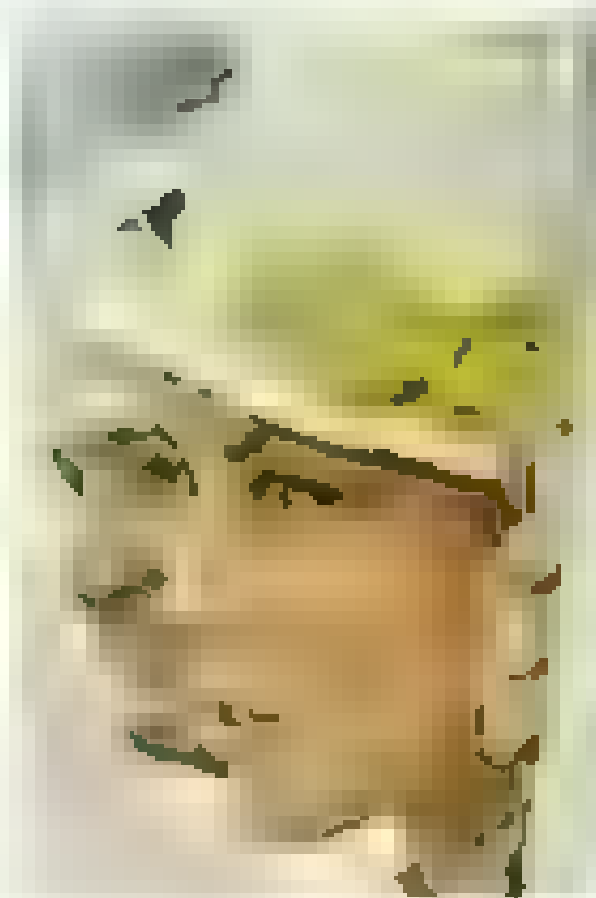
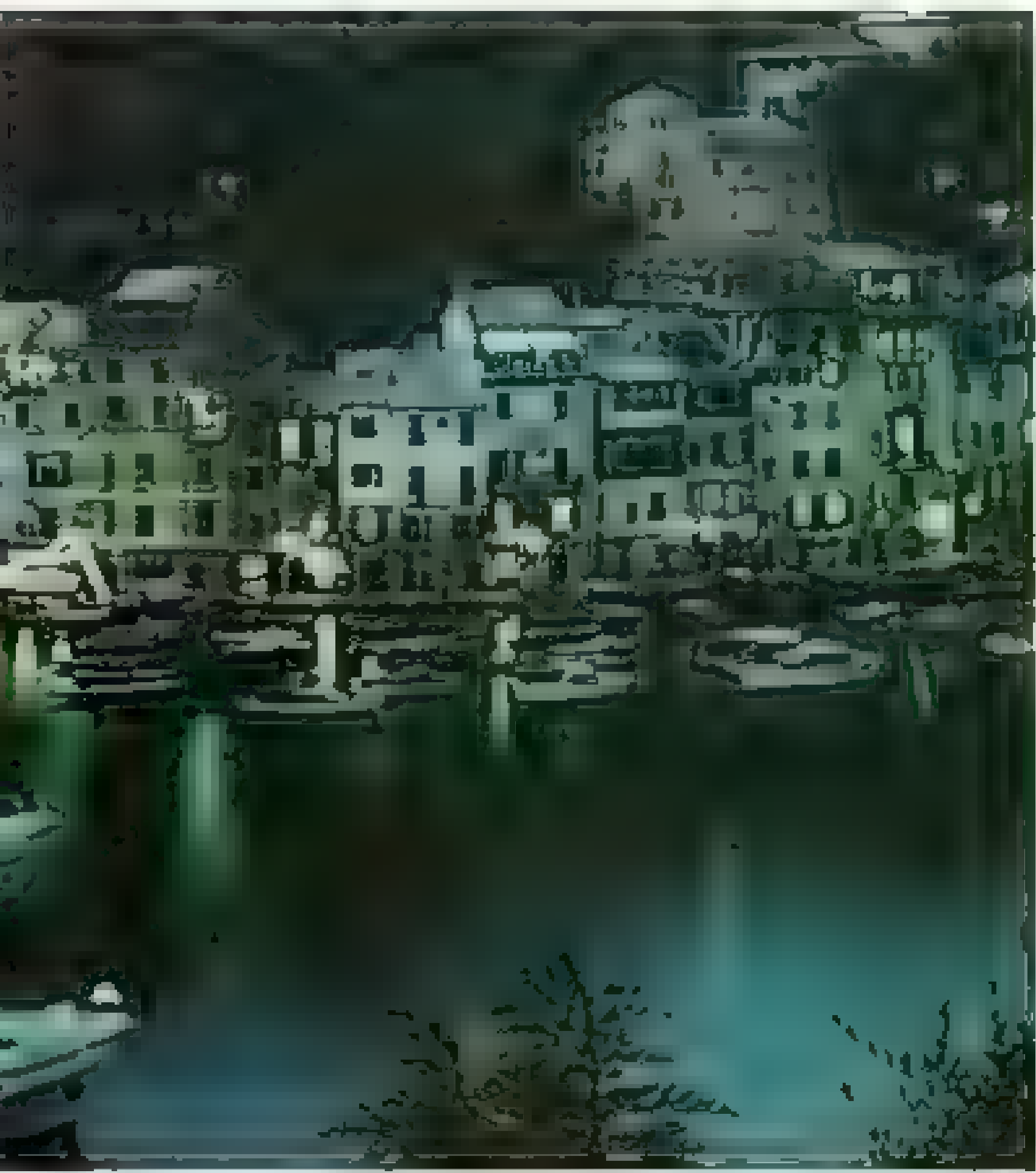








The first of these is the fact that the  
 government has been unable to  
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MR. N. S. P.

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# North Toward the Pole on Skis

By BJORN O. STARR

Muzzles down, jaws clamping—Greenland huskies  
at the head of the sleds make a powerful  
team as they lead the men across the ice.



# C

[illegible]

# U. S. R.



\* Since Robert E. Peary reached the North Pole in 1909

an earthquake, yet with a single difference—now

We had pitched our camp, on April 23, far to the north of Canada's Ellesmere Island, on a headland facing North Pole country.

#### Force of the Sea

##### Icequake Forces a Retreat

We found the Arctic sun flooding the spring menses and would have seen impossible snow cover for heavying the ice sheet. The force of the earthquake forces us at last to retreat.

Packing the sleds to the spring is almost as we loading dories in a gale. Tents, sleep stores, and food fed together in the heavy

ice. The force of the sea is so great that we are forced to retreat. But when the ice sheet of the ice sheet to come from the southwest, so we chose north.

The ice is now a hard by 100 feet, a early morning. The edges had crumbled only and the sheet continued. Once it so, ped down among the deep morning looms, it would be ground to powder in an instant.

Straining at the ropes, we had led the sleds to the northern edge of the ice now and on to feet above



Emphyse mask cannot stop

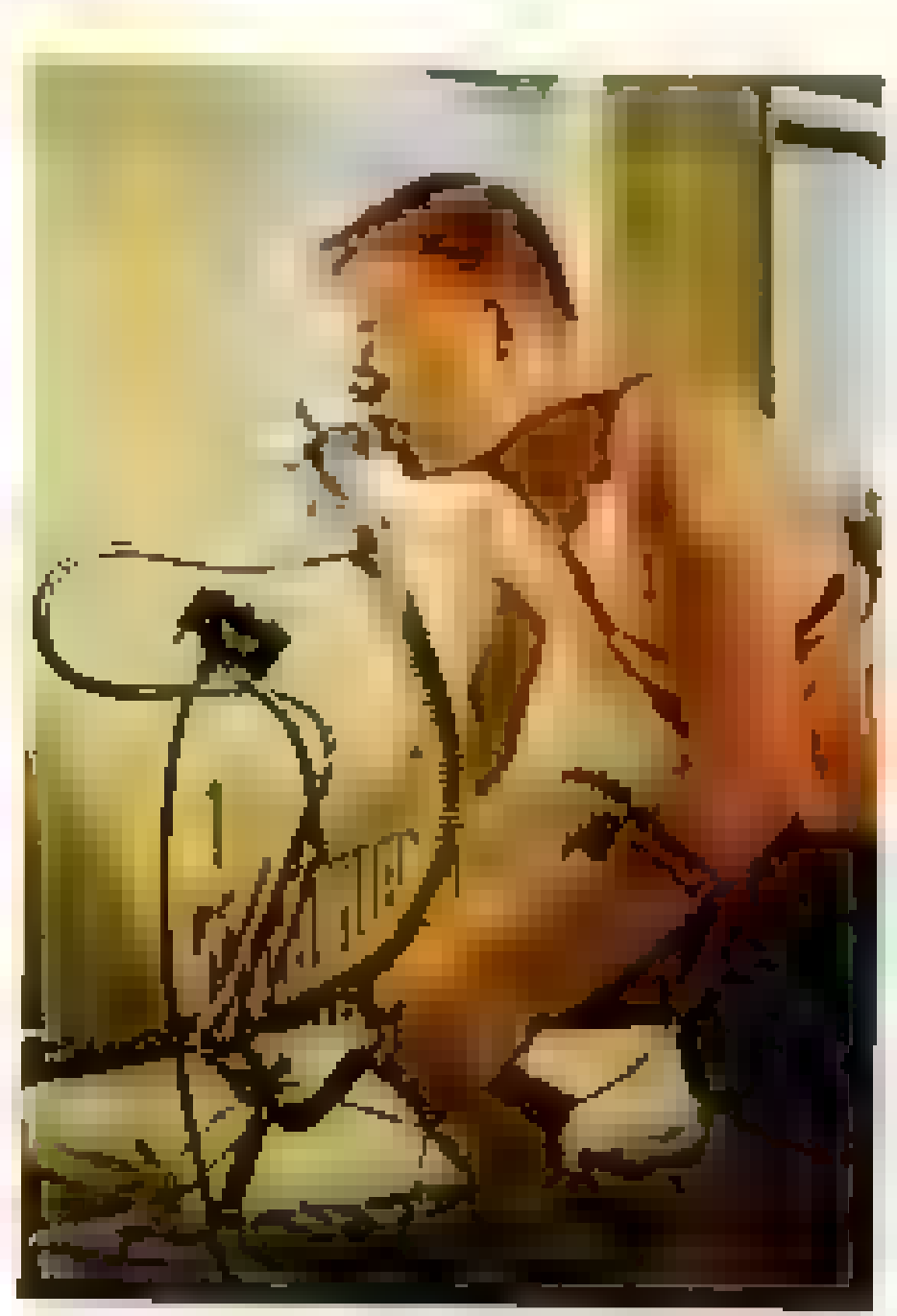
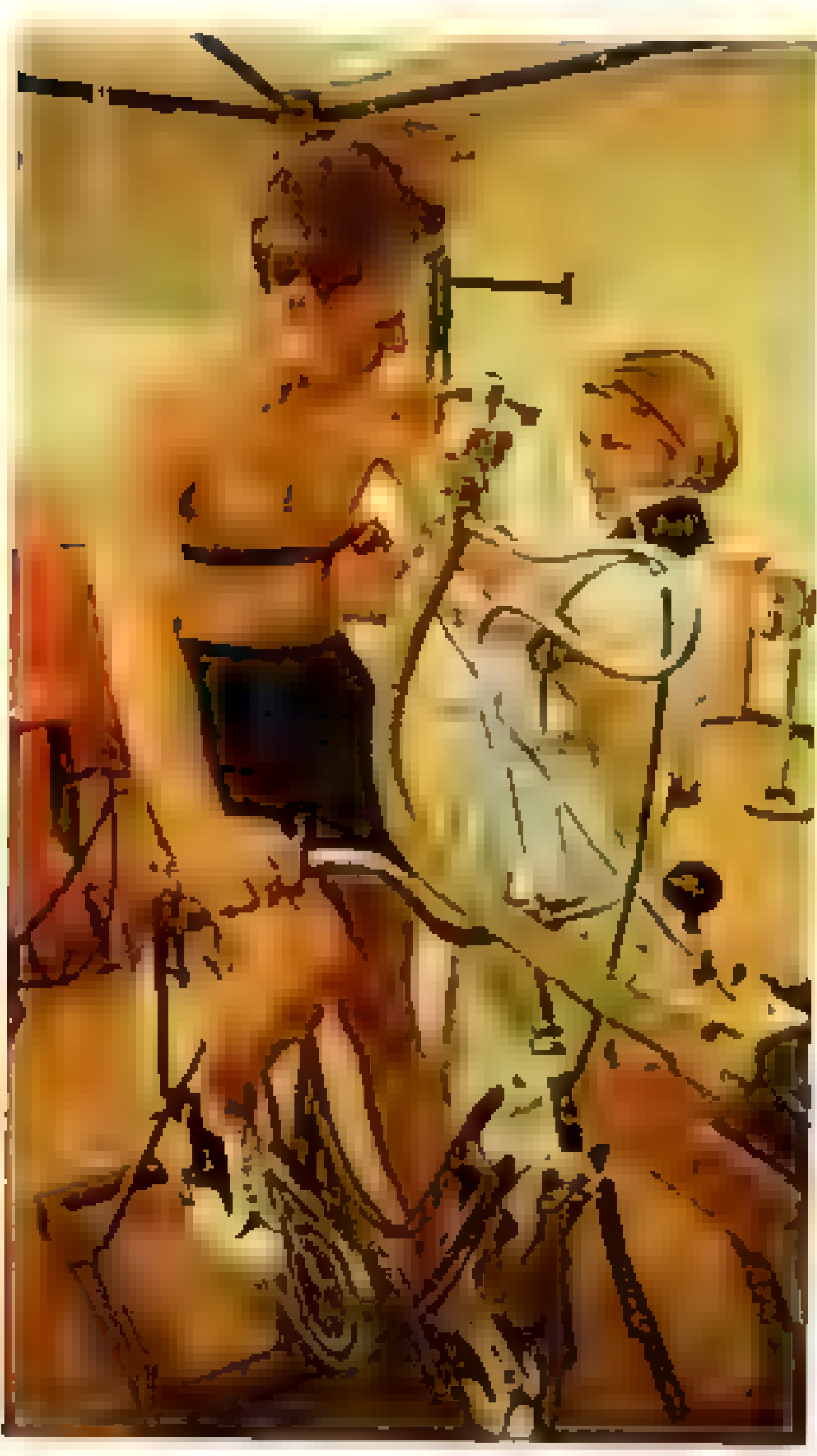


Reluctant sleds



Handwritten musical notation on staves, likely a score for a piece titled "The Little Boat" (Little Boat).

Handwritten musical notation on staves, likely a score for a piece titled "The Little Boat" (Little Boat).



Handwritten musical notation on staves, likely a score for a piece titled "The Little Boat" (Little Boat).

Handwritten musical notation on staves, likely a score for a piece titled "The Little Boat" (Little Boat).

at Cape Bar, we were able to reach the ice. With Luck, we continued a drive for a complete traverse of the Arctic. I was the last to leave the ship.

At the station, Nansenberger estimated the distance at about 1,000 miles, and I traversed it at roughly three months. I was in my sleeping bag that night after I had reached the Pole.

ing the traverse. But even for reaching the Pole, it is.

In a sense, I had spent years reaching that camp, on the floor. As a student, I had been in my bed in Norway when I studied the lives of great figures in Arctic exploration.

But that Nansen's account of crossing the Pole in 1898 had inspired my first Arctic expedition. In 1912 with a friend, Hjord Ræst, I had traversed Greenland and crossed on skis at

### Flight Gives Preview of "White Desert"

At the Greenland, my thoughts turned to the Arctic, that vast reach of trackless water and ice forever reshaped by winds and

ice. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

In the summer of 1903 I went to the search. Men were the most critical point. Here I was lucky. For Norway is blessed with a people born to the outdoors and to exploration.

Yet endurance counted as much as strength. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

Long as it took to get to the Arctic, I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

I assembled a team of eleven young men of experience, men who knew that the Arctic was the most part of any expedition.

It was a dog team driver.

I had the right advice and support. Some of the best of both came from my friend Max Brewer, Director of the Arctic Research Laboratory at Point Barrow, Alaska. The laboratory, a civilian arm of the United States Navy, supported my expedition.

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of several weeks I was my first Arctic expedition. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

concenter—an enormous, vast and mostly white desert, marked ridges beyond ridges, covered by the ice. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

ridges beyond ridges, covered by the ice. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

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Shake down cruise in 1903. Found tests on and kayak-like platform. I had seen the Arctic in a way that no other expedition takes a great deal more time and men than a Greenland adventur.

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Every body has  
 a right to  
 be heard.

The first three were  
 in the first row.

The first three were  
 40 feet over the  
 United States.

My new take-off for home says I don't have  
now. Max has come and after I was to see  
my friends.

"You have a ragged rip—but it don't  
 do a good one. Let us know if we can help."

At the starting time for the expedition, I chose early March of 1964. Two factors dictated the choice. In deep winter, the pack is at its most southerly, traversed by

As spring with its storms and higher temperatures creeps northward, open roads in the ice increase, and the dangers of surface travel decrease with them. But so does the amount of sunlight and, in end, heat.

right. We hoped to profit from a

1981 2000 1981 2000 1981 2000 1981 2000 1981 2000 1981 2000

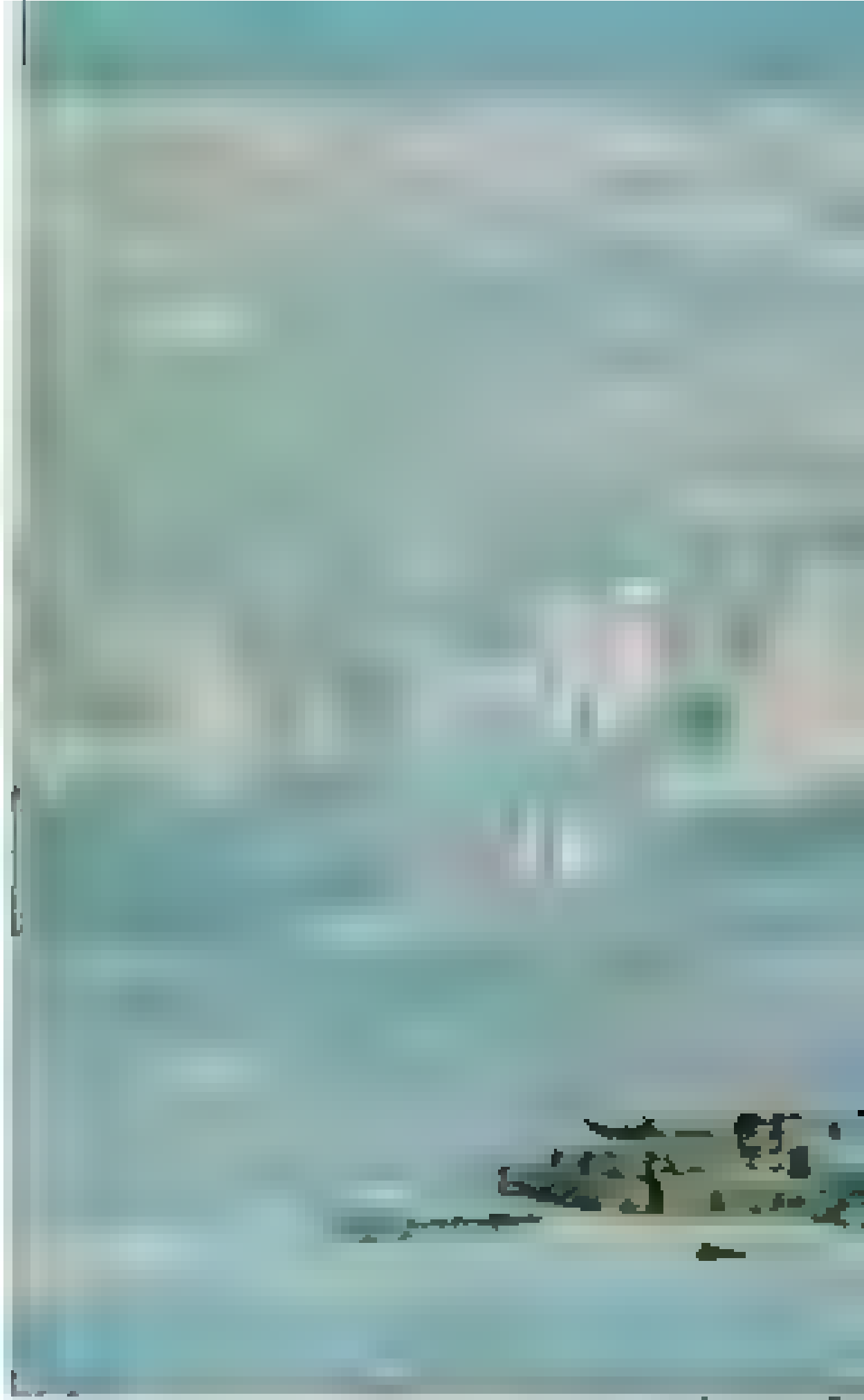
The National Association of Society officers as a general rule, as well as the representatives of the Norwegian labor press, were not for the first time, the Swedish clergy, a stock and exchange market purpose was large and so on.

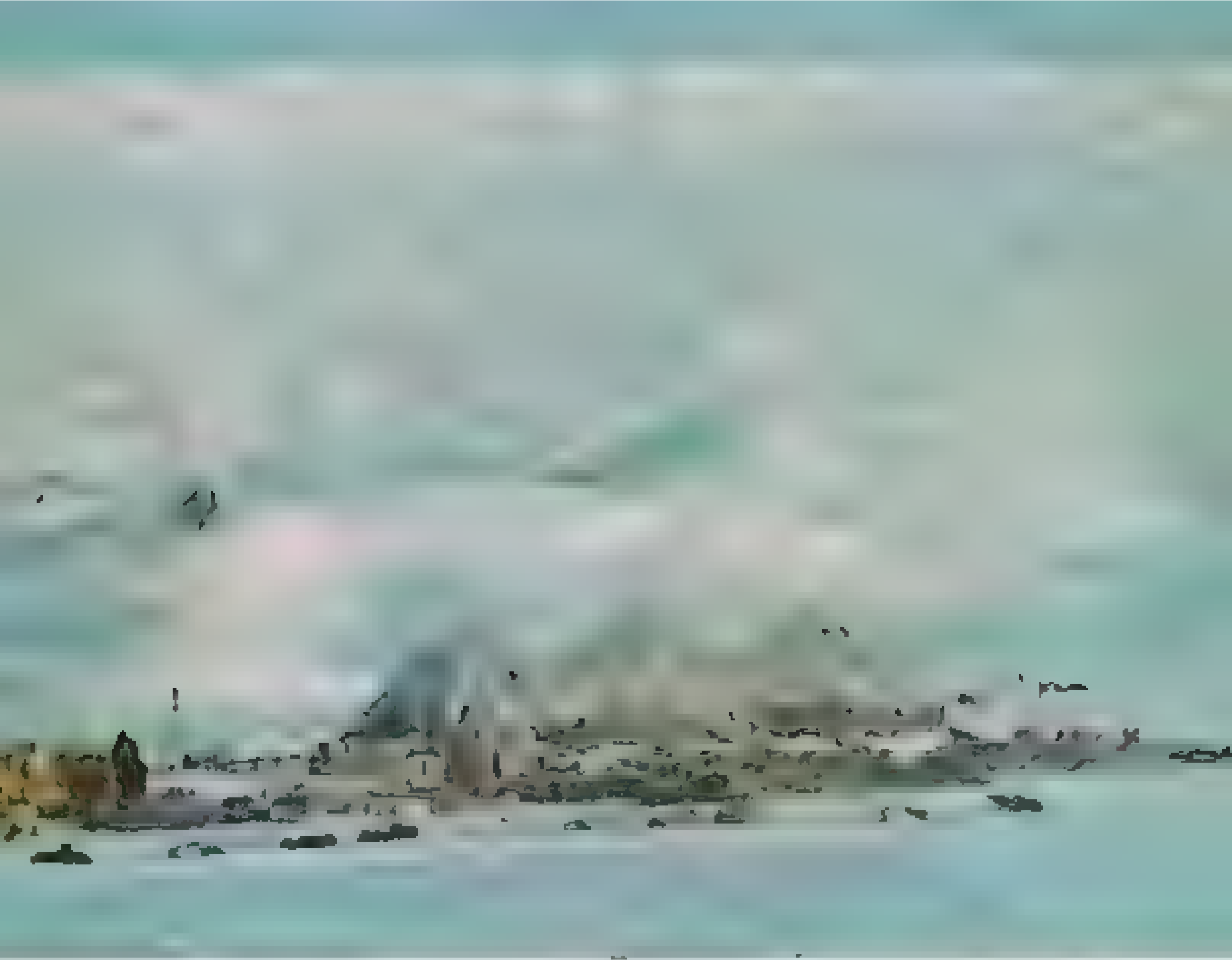
Even now, we have a number of scientific objectives. Research organizations in Norway and the United States asked us to observe such solar conditions as solar flares, temperatures, processes of coronal ejection and the effects of these conditions on auroras, aurals, and perturbation.

As March approaches, we have a final point to report and noted to thousands of you:









Coastal view

Coastal view









1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1







Shielding the sun with his servant, the

servant, the

from which the sky saved the frozen. And  
 here, more, comparing the folk, the duck, from  
 camera I saw to Asia II in 4, because

almost yet, back across the ice to him. At 5, 10  
 to, a mere mile or so a day. I know we could  
 be and more of success very quickly. With 20  
 miles, I am sure to be between 25 and 30  
 to write to him and get most of my stuff  
 as, after, our work.

Finally, in the last few days of the spring  
 I reconnoered. The next day's work. After an  
 hour I turned back. For 6 or 7 hours we used the  
 more back to king task of the spring, and the

As I crawled into the tent, my eyes turned  
 away.

Did you find a very pleasant surprise?  
 His child, a fine of the dog, did  
 not look at me.

If there  
 we have

found us at 25 miles. We  
 found a good one and took back the  
 and, rising at six, breakfasting at  
 about noon, a  
 in 14 hours, then  
 he saw the  
 never before.

We came to know the south of  
 the high, white snow  
 which, after









picked up the tools which I had left  
+ with a massive ice storm

leaving the sleeping bags in the morning was a run for money, each man developed his own system for dressing. I learned not to go on my ski boots until after breakfast. When I first put them on, they were frozen stiff as Dutch oaks. But in 15 minutes my feet had warmed them enough to tighten the laces.

## Home-made Seeds Become Snowplows

At the end of three weeks with 25 hartebeest and myxobolus, etc. at last we broke through our barrier. Threading the waist of the constant link, we reached the smoother sea ice.

Our support team had left us and I turned back to Alert, and now we were six on the ice myself and my younger brother Torga, our medical corpsman, dog driver Hans Oddvik, Sgt. Sines and Sverre Hestham, our two radio operators, and Steinar Hansen, navigator (ages 20-34).

They had lost us heavily in so much as all  
profits were lost, and our first goal was now lost to  
us and Arks II. Arks II were 25 miles north  
of our position, close on the nose of the Pole  
though of course the is not all too constant  
with the Arctic pack ring, page 250

When the shift to the heavy beam was made at Aert and cut on carrying capacity, we had taken a calculated risk—we had transformed our systems so that they would last us only as far as Area II, and left the plastic bags behind.

When we have finished our way through the cargo, we will be left with 100 tons, the rest being 100 tons, I have heard a man with a U.S. Air Force plane, flight to Africa. It will have to be carried by the cargo, and so a total cargo of extra 100 tons, and our

Ice floes rafted together and broke up into smaller pieces as the ice pack broke apart. Skis were used to make the trip across the 10-ft hole by hand. A hole in the ice split into a small stream of water and ice, and ice chunks were scattered around us as we walked. The water was dark brown and very cold. The group's sense of humor took a 45-hour trip and ended on a flat in the middle of the Arctic Ocean.

Frigid clanking<sup>1</sup> is for full business purposes a necessary human biological function. It is a basic element of good luck and can be used to increase speed and efficiency.



and the author of *Arms II* seems to be a different person—the Polish writer is described as being "old and blind" (p. 104), whereas *Arms II* is

[illegible]









over 40,000 copies of the *Journal of the American Medical Association* for free.

Instead of the "everybody" we sit perched hot on the porch at last.

[illegible]

me and against the other. Sometimes I even managed to work as a third party and did my best to make an argument for myself.

While the snow fell, my brother Terie took watermelons apart in his pond and put them back together. Hans Odvath, the magnificent, like Hans, Indian, and we dreamed up

But on the day before

Once I stood a girl up a lead. In a



Forty-one days and 300 miles of polar work.

The rifle was in my hands. Even as I saluted, I knew it was mine now. A shot season would only win me if I left it.

The last days of April came—we had spent a month in the ice. Now we rationed our provisions severely. Lemmings for the dogs was a shortest supply, and were it not for my fire on the animals themselves, it might have disappeared. Crabs and walrus on the train-

and, when food is so scarce, feed the unfortunate hungry so a dog

I sometimes think of the Arctic as a great  
fearless creature, waiting patiently and silently  
for man to make a mistake that will betray  
him. One day I made such a mistake. I  
was alone in the Arctic when I was  
fifty.

[illegible]

Wind-blown Snow and Streets and a  
 hip in a house great in number being  
 in the midst of the II But the expected  
 as the day I for  
 F  
 n  
 n  
 2 1



happened, I turned from my tracks to dig a foot over the snow blanket in front of me.

Backtrack, and then suddenly a screen of swirling snow gave uped me. My earlier tracks in the first snow blanket over the ice had been swept away, and I could only grope forward, searching for the semi-poles in the ice made previously by my ski poles.

I needed both hands on my poles to steady myself and fight the wind, which now caught me full in the face. The frostbite on my face grew worse, a fire pain drawn across my cheeks and nose. But I could spare neither a hand nor time to protect myself.

Finally, through the cotton-wool screen of fog and flying snow, I heard the dogs snapping across the ice to see that had killed the expedition. I was safe—that I was to wear the mark of my error for weeks—a painted and out-of-ash green-and-black nose.

#### Sea Ice Begins to Break Up

Arctic II was now less than 100 miles away, and at last the leads caught up with us. One morning we came to an innocent-looking silver veil of water.

I crossed it easily on skis, but then I found "active" opening and closing with the force of the wind and currents. It began to widen, and I got back just in time, skiing over small ice floes that formed steppingstones in the dark open water.

As the men came up, the lead widened further, forming a half-mile-wide water barrier stretching out of sight. Without the plastic boxes, we had no hope of crossing. We could only camp until the lead closed or froze over.

"Half rations again," I announced wearily, and we settled down to outwait the big lead.

We camped 24 hours. Then the lead began to close. The try jaws met at last with a sound like a thunderclap.

"*Huk, huk!*" we shouted to the dogs, and in a moment were safely on the other side—or so we thought. Only when I rounded a snow ridge in front of us did I realize that the ice had trapped us—we had merely stepped onto a large floe now drifting into the center of the stationary ice lead.

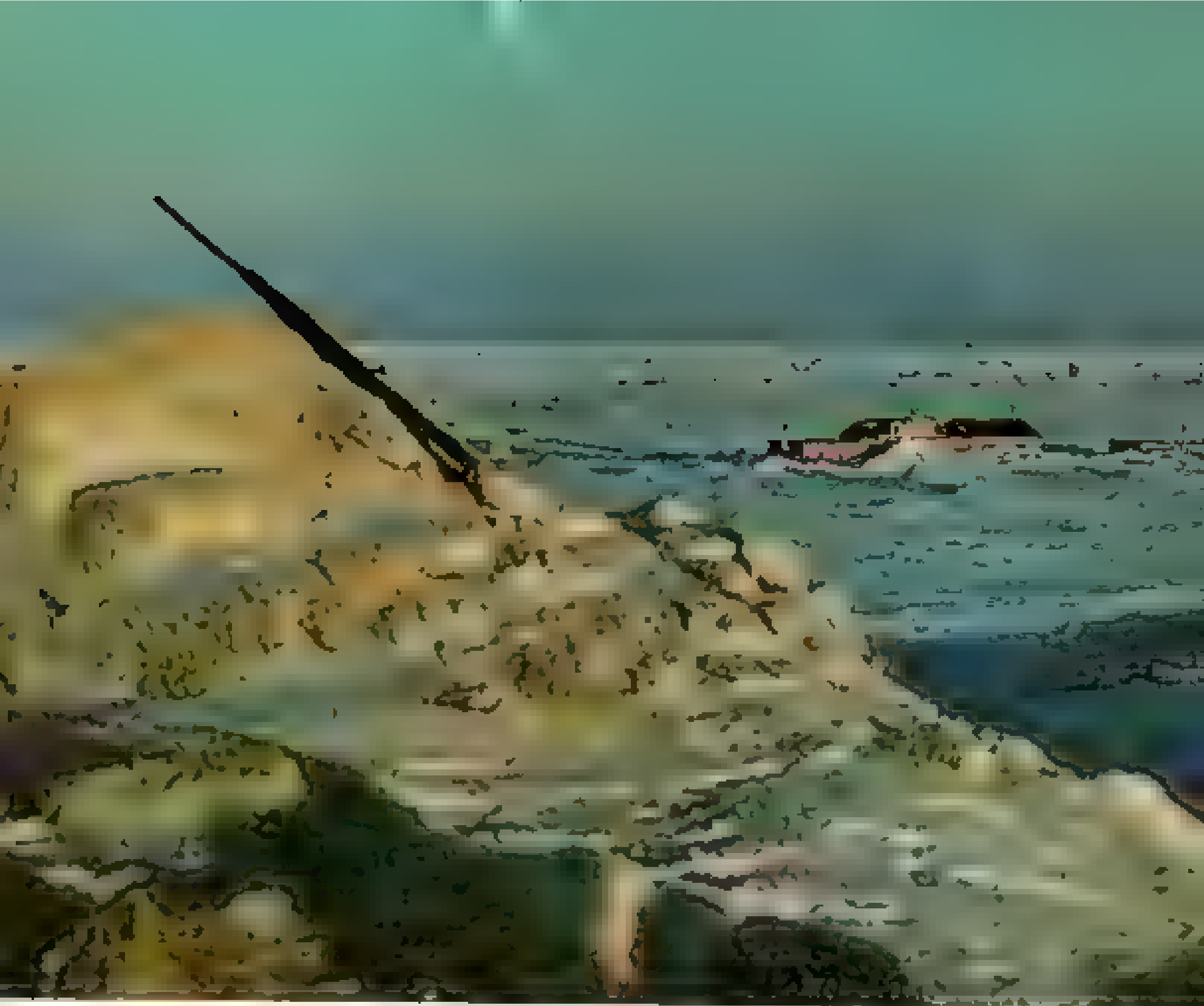
The worst dangers are those about which one can do nothing. For two days we drifted helplessly on the floe. Had a sudden storm come up, it could have exposed our ice raft or ground it to gravel beneath our feet.

Dogs can take such a dunking at 40° or 50° below zero and recover if run at a brisk pace. But we men, the only ones to put a camp at once, change clothes, and take refuge in a sleeping bag. If tents and bags get a soaking too, they become solid lumps of ice—and so, very quickly, does the man.

At the end of our two-day vigil, the floe heaved for the northern shore of the lead. As it touched, we yelled once more to the dogs. They were afraid at first and fought our efforts. Some took a painful plunge in the slush. At last we picked up speed and went skimming over newly formed ice birds thicker than heavy paste glass.

Our speed provided the margin of safety; a moment's stop would have brought disaster. Several times I glanced behind me and saw the ice actually sagging beneath the weight of a man and his team, so that their feet were a foot below from my sight.

The day came when we saw—saw Arctic II, if Steinar Larsen had calculated correctly. We were prepared for a mass. If we did not sight the ice island by evening, we would begin a methodical crosscross of an area of about ten square miles. What we were searching for in the flatness of a gray Arctic day



End of the trail for our eyes. Arks II supports the Western Hemisphere contact at right north—the drilling ice ship. The boat back of Ark II later. The man at right is our contact, a photographer during his Arctic assignment for NARS.

was not technically a flow but a largest, much better expanse of ice that had broken from a continental shelf, perhaps a century ago and had been a rift in the Arctic Ocean ever since. We would recognize it by the few stars around it its own surface—ones for a lozer and men.

Over too far to the right before. For our room had promised. The signal flare ever out on the hour began to glow at noon. As each hour approached, we climbed towering ice blocks to search for a flare on the horizon. A flare of a direct hit. The flare to go.

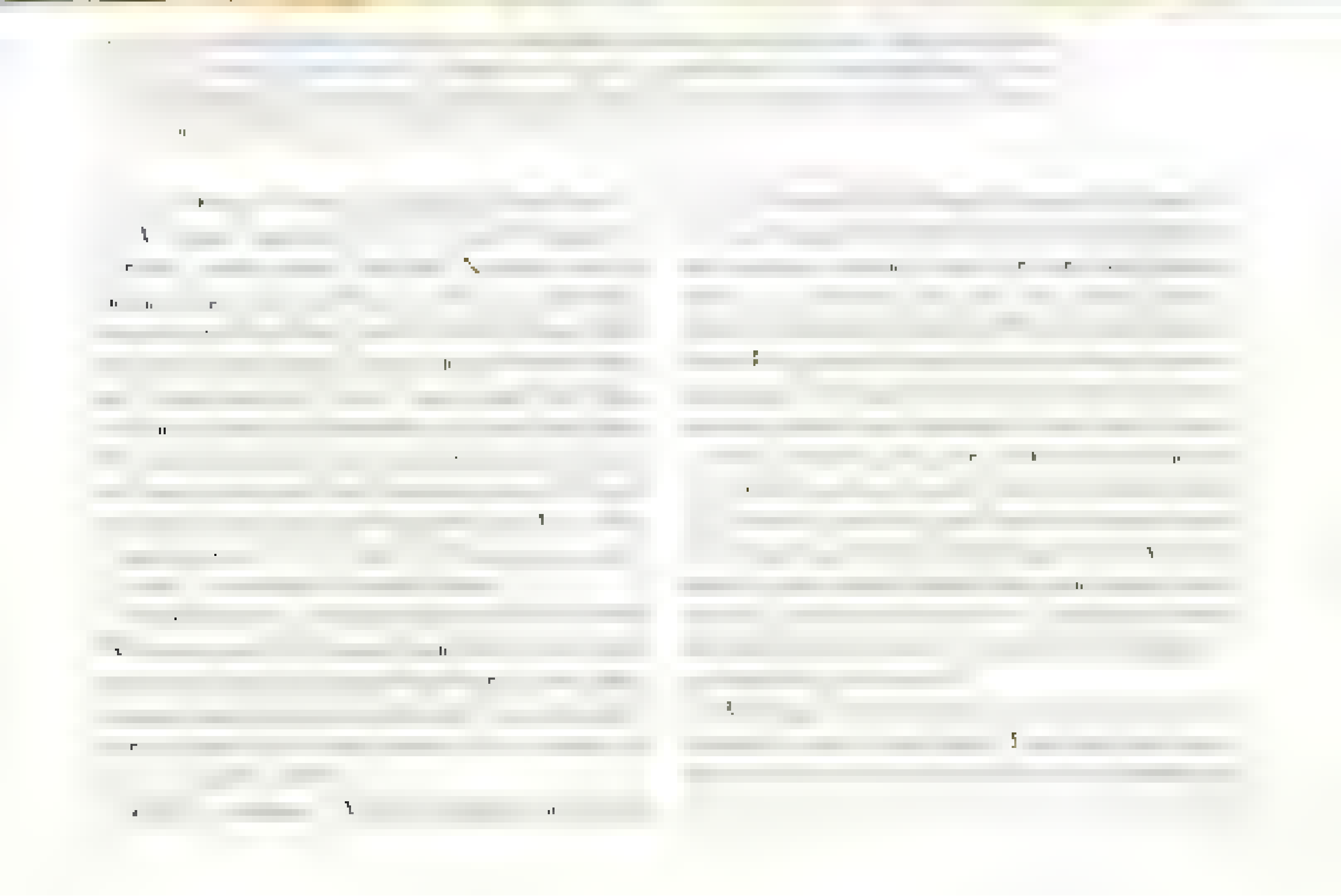
At six o'clock that night Earl Seaton and I stood on a small ice peak, scanning the horizon. The flare passed again, with no warning. The rocket flared down, and a determined search. As reached the bottom of the set tower, the overcast sky had suddenly turned a pale blue. The

flame for a time, a moment. The flare, caught in the peak, was there, threatening to tumble 20 feet straight down.

There it is—I see it. Ark II? I can feel it. We had it. We had it. We had it. We had it. And there it is. Indeed, for a cluster of flares, but the splash of the water, the water. We watched, the overcast rose again, and the flock of crows vanished. No matter now. I had a compass bearing. After 41 pushing days in the ice, Ark II was free.

#### Cook Complies, But Keeps His Promise

We arrived that evening, May 3, at our camp, and the Ark's crew, we could see. The cook, Ben Pedersen, of Ark's cook, was over the radio to have a steak dinner waiting, was not to be denied. The chef's right to grumble. "Where's the food?" he asked, shaking my hand, repeating

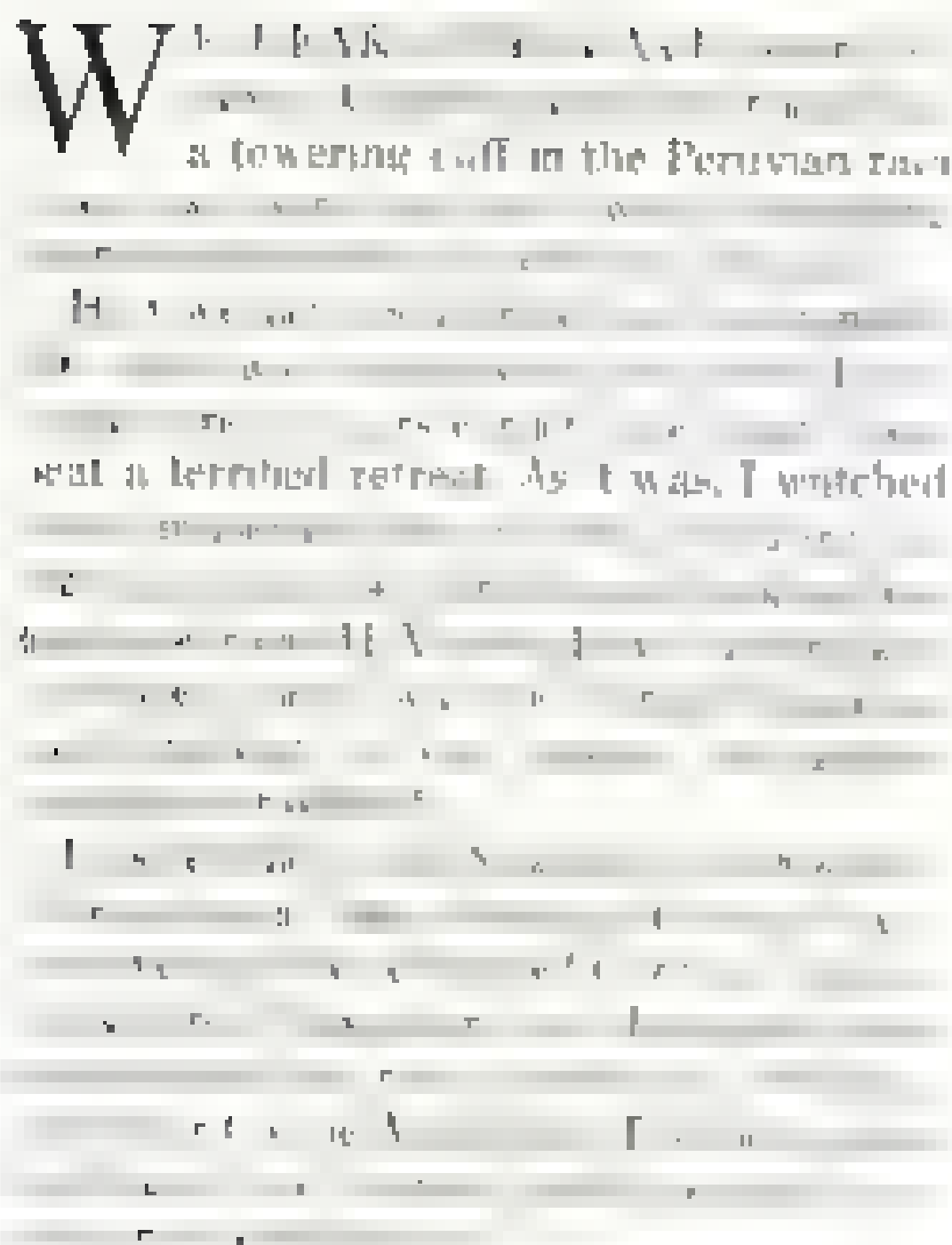


*South American owbirds navigate by echo  
in the blackness of their cave homes*

# Birds That "See" in the Dark With Their Ears

By EDWARD S. ROSS, Ph.D

*Photographs by the author*



**The Author:** The celebrated bird biologist, Dr. Edward S. Ross is best known as the author of *Endemicity in the California Avifauna* and *Sciences of San Francisco*. His specialty is the well-known order of web-splaining insects, the *Phrynosoma*. His expedition is supported by your Society to Africa, to India and to the East Asia and to Australia, he has discovered hundreds of species of birds previously unknown to science.

On a wide-ranging insect-collecting trip through South America, we had driven across the Andes to the upper reaches of the Amazon River. We could not pass up the chance this gave us to visit the misnamed Cueva de las Lechuzas—the Cave of the Owls—overlooking the Amazon Valley near the remote Peruvian town of Tingo Maria (map, page 284). Natives of the region erroneously call the noisy villosus owls because of their large eyes and nocturnal habits.

## Birds Cave Insects Out for Choking

Actually, the long-whiskered owl is an outsize and distant relative of whippoorwills and goatsuckers. But unlike its insect-eating kin, the guacharo fee is only on the fringes of forest trees, chiefly palms and laurels. This diet gives the young birds an exceptionally big yawn.

Despite protective efforts, most known owl caves are regularly raided by Indians or local farmers, who rob the nests of young guacharos. They beat the squabs to render fat for cooking—hence the name *choking*.

The inarticulate *guacharo* is a noisy bird. It calls out a series of notes.

With its hooked beak, the bird snatches insects from the air. It is a voracious feeder. With crop full, the adult may fly back to its nest four or five times during the night to regurgitate food into the mouths of the young. Before the

## Wings a Hawk, Tail a Fan and Red Flowers in Mid-air Like a Helicopter

Like some god-birds, no birds are known in South America possess such a variety of shapes among the winged forms of the Southeast Asian swiftlets, which resemble the birds I have described. They are once upon a time from rock walls to help them make up the dark black caves where they stay in hundreds. A three-foot wingspread makes them masters of high maneuverability. Up the side of a quick lift, a short turn, or a slow descent. Such power enables them to fly slowly and precisely in the crevices of palm and laurel from their squeaky diet.







Old Time

Handwritten text, possibly a date or name.

Handwritten text, possibly a date or name.

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Handwritten text, possibly a date or name.

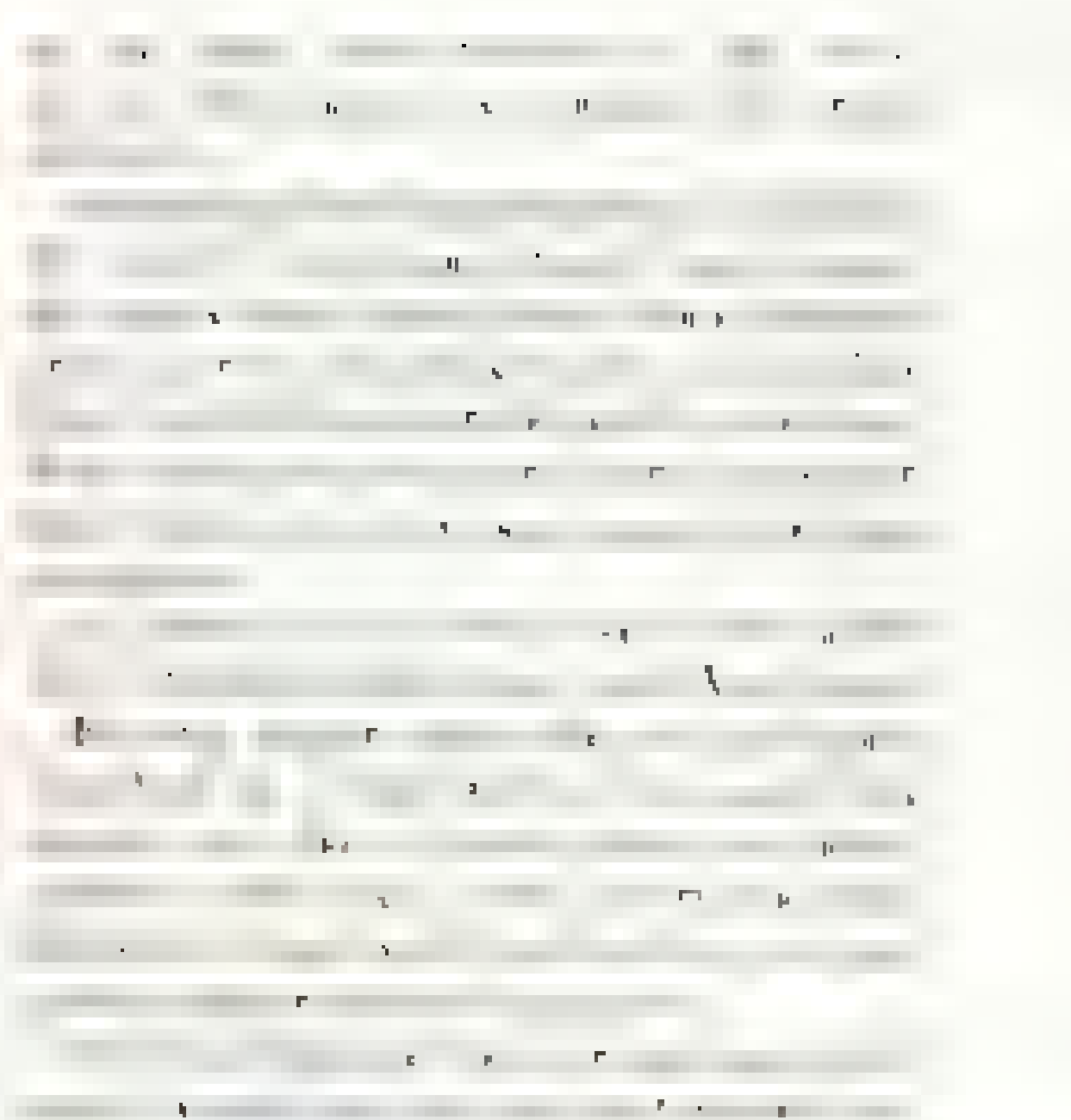
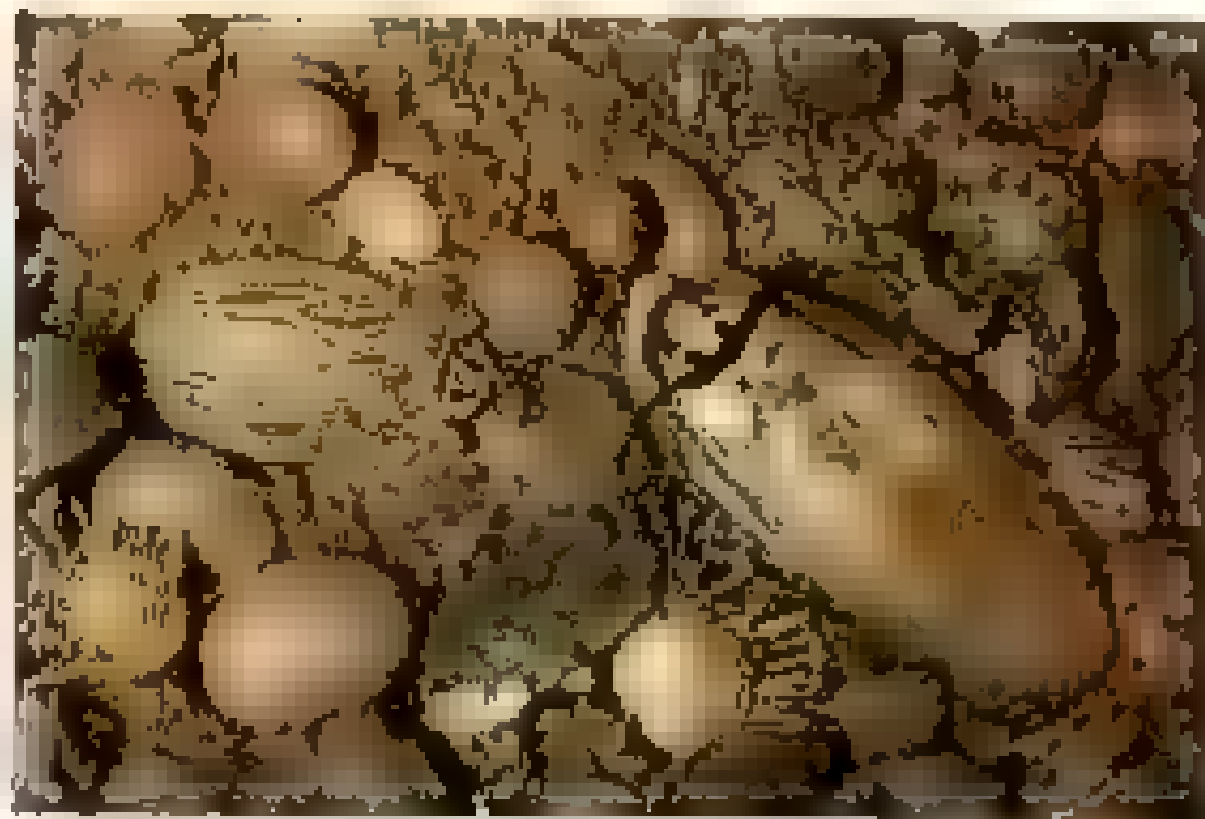




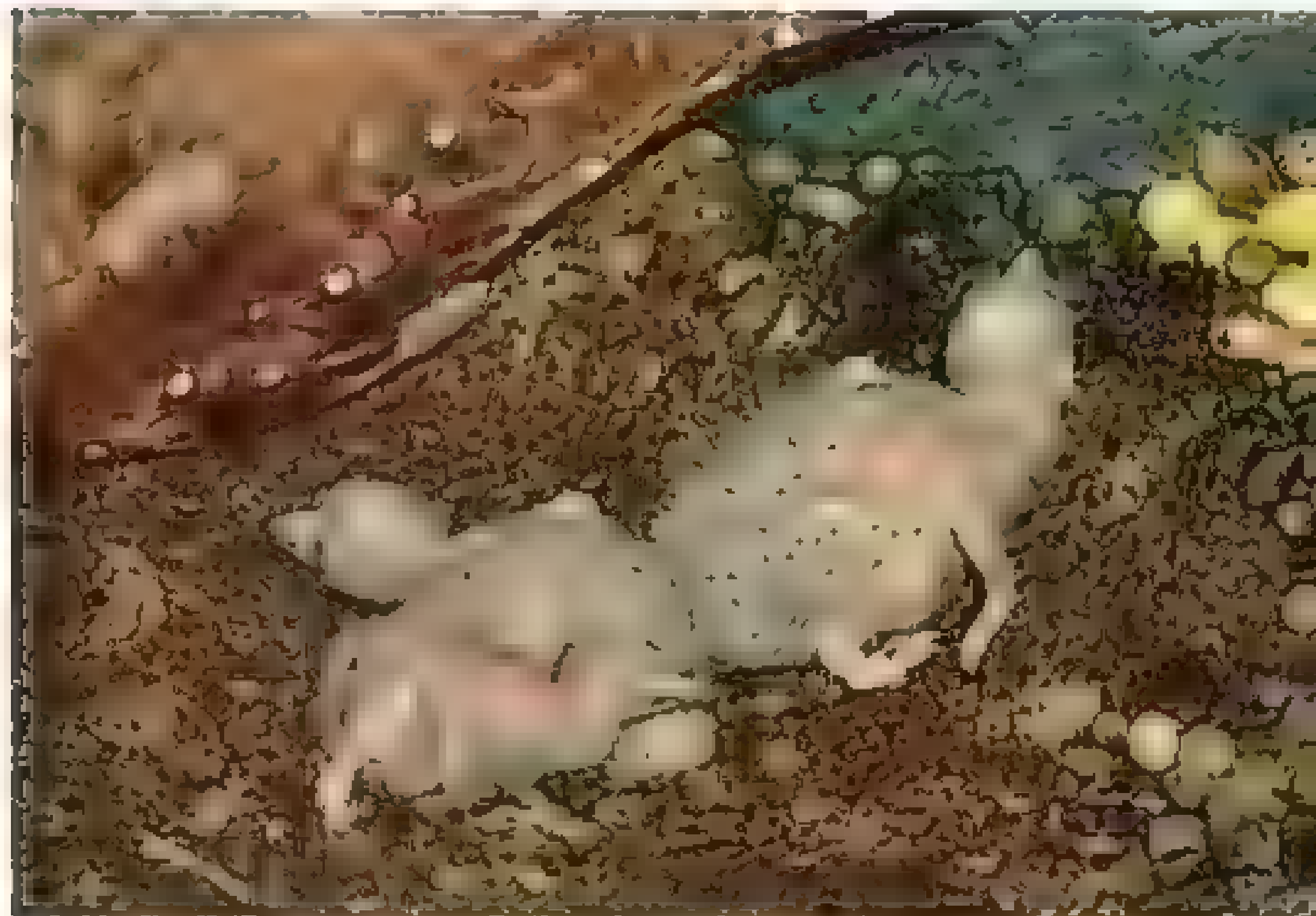


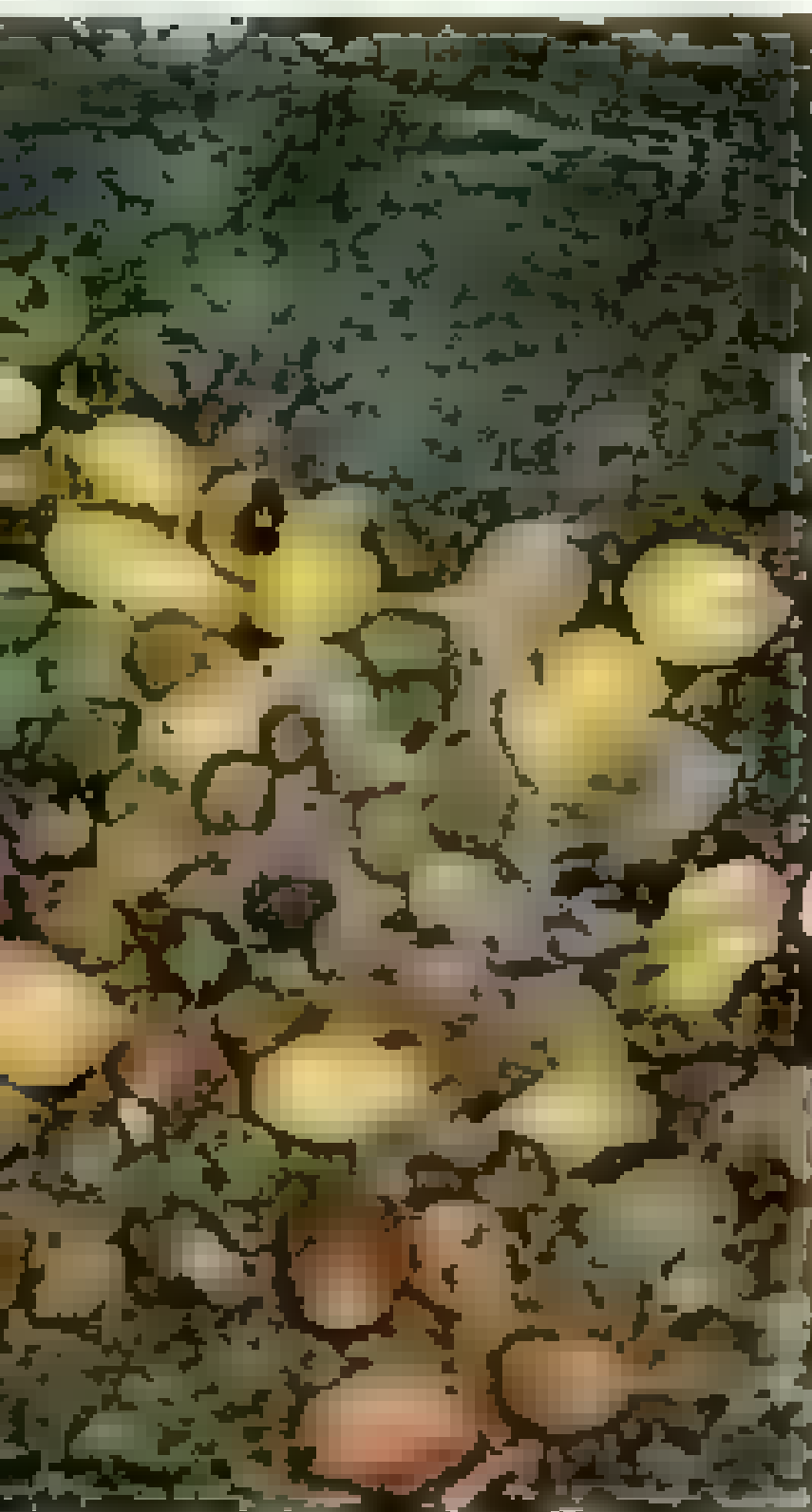
Figure 1

Figure 1 shows a large, flat, brown, oval-shaped object, possibly a seed or fruit, lying on a dark, textured surface. The object has a mottled appearance with darker brown spots and a slightly irregular edge. The background is a dark, granular material, possibly soil or sand.









The chasms were bridged by rocks, and the  
sanctuary had been recently visited. Only empty, eroded  
niches remained.

Innumerable nests were within reach at a little distance, and  
the birds were very tame. Some of the accompanying photographs were made in an inner  
cave, a smaller one we visited in Trinidad at the north-  
east of the "Chasms" (page 284). The guano here  
however found, is the same bird. There is only one species  
of it occupies a genus and family all its own in the order  
Columbiformes.

The bird was the subject of our questions. Our  
only geological literature records only a few, often with  
separated cave chambers from Peru and Colombia to Ven-  
ezuela, British Guiana, and Trinidad. Its Andean range is

### Step in Darkness Brings a Near Tragedy

Where the birds we discovered in the Cave of the  
Chasms, there seems little danger that its orchard colonies  
will be completely exterminated. As the nesting ledge

for us, our watchmen gave warning that it would soon be  
dark outside the cave. Apprehensive, we began  
the descent of the bare, slick cliff. As we backed down, our  
own shadow, young Clark, being the tallest, was  
unfettered, and the way I took the

As the wind moved from crevice or crack, a cold  
draft was felt.

Just as the worst happened, Van Dusen's feet slipped  
and down he slid, falling past me on his way to  
get a light.

"Oh, no!" "Watch out, Clark!"

I hurried to have a light with my left hand  
while my right arm, Van instinctively caught my  
extended right arm. Both of us were on the brink of  
sliding down the cliff. But my tobacco and hand-  
kerchief held, and Van stopped.

Clark got Van's toes to a crack, and after pausing  
for a while, we made it the rest of the way.

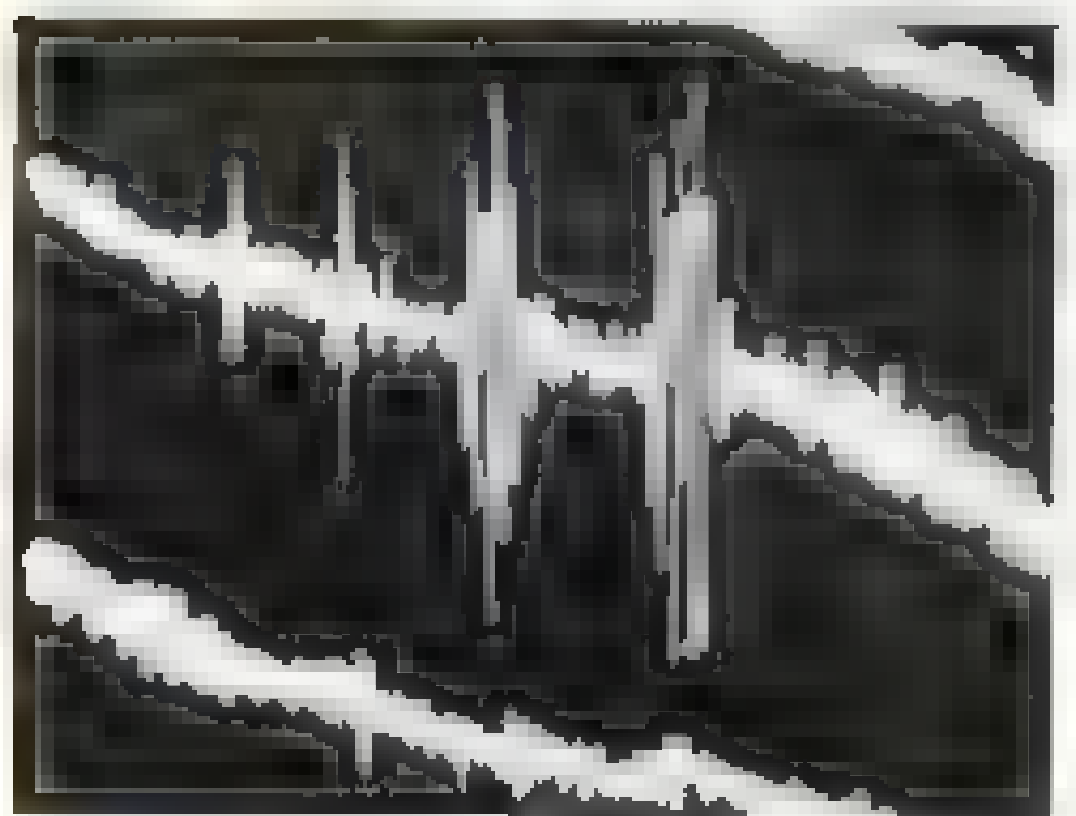
On the cave, in the afternoon, we  
were dazzled by the beauty of a great forest tree in full  
flower. We and its neighbors must feel when we raised

Our day was long, the evening light fell, and  
the birds were still. At last, at 5:30 the birds were still  
in the cave. A light shined, a few darted

the cavern, as if to test the light, and then retired.  
Then emerging bats started by us in great numbers.  
As the birds began to leave the cave en masse, or  
more for a full hour. Hundreds of birds passed over  
head. As soon as they were clear of the rocky entrance the  
"Chasms" song ceased, and the birds became silent  
sometimes dark and over the forest.



1946-1947

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WASHINGTON DC

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difficultly, geography knowledge

[illegible]

מאת: ד"ר יעקב גולדברג, מנהל מחלקת המחקר

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## NATIONAL GEOGRAPHIC MAGAZINE

MEYILLE BELLE GROSVENOR. 1890

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■ **FREDERICK G. MOSBACH**, Director, Federal Bureau of Investigation

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James T. Hedden, Louis Hadden, Harry  
Gardner & George Paul A. Zahl 1940

James H. Hunt, H. Hunt II, James W. Hunt, Charles C. Hunt

Source: Ralph Cross, c. 1900. Thomas & Catharine Lee Underhill  
 and Arthur P. Aldrich, Jr., Charles H. Stuart, and Edmund Wilson.

<sup>18</sup> Joseph Stiglitz and Edward L. Glaeser, *Losers at the*

Verbal: Patrick C. Doyle Chief Guy Holmgren, David

### CARTOGRAPHIC STAFF

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L. FORSEAN OFFICE

4. **Explain the importance of the following factors in the development of a country:**

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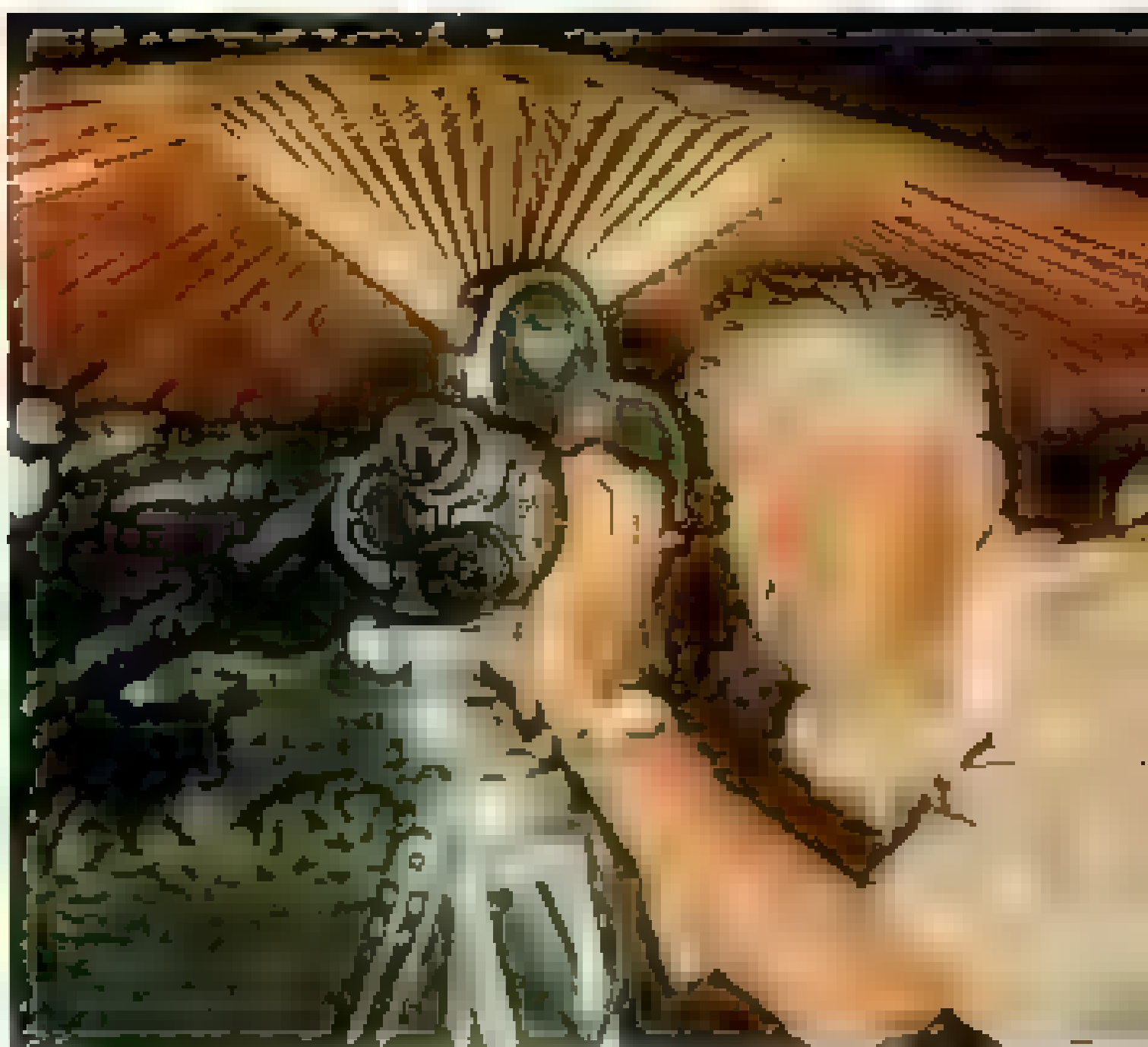
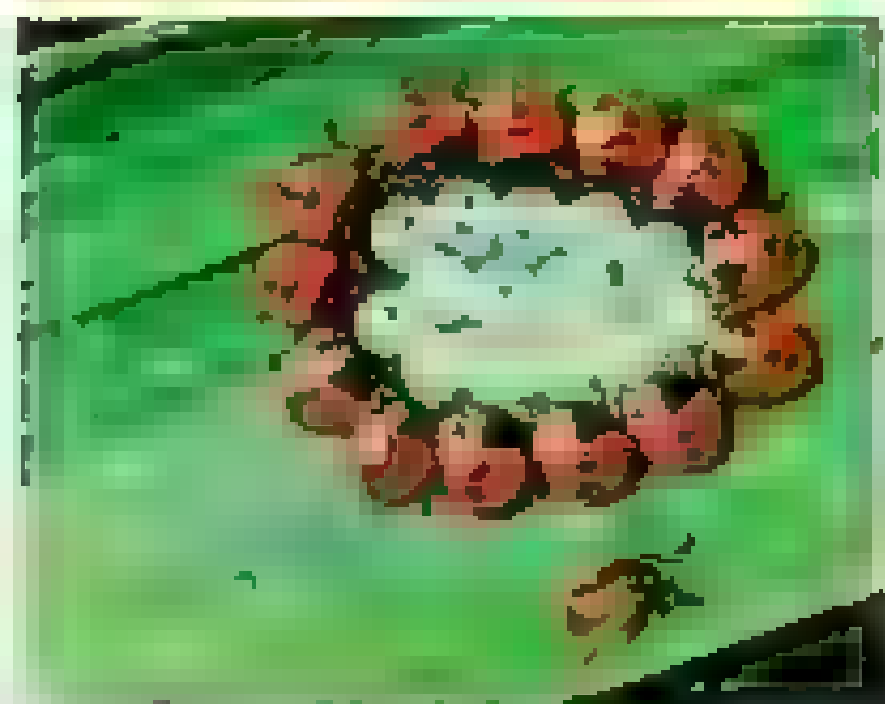




Any car that is this responsive, obedient and satisfying to drive  
simply has no right to be this good looking

PONTIAC 1965

OF THE A



## Strange safari stalks the Orient for rare insects

He ~~was~~ <sup>was</sup> ~~also~~ <sup>also</sup> ~~equipped~~ <sup>equipped</sup> himself with nets, sweepers, bottles, boxes and cameras. He ~~also~~ <sup>also</sup> had a million insects and plants taken alive and in ~~the~~ <sup>the</sup> ~~field~~ <sup>field</sup>.

Added to a National Geographic Society research project, the Kew team collected 24 new species brought from the forests of Southeast Asia. The number of new species was double that of the African spider of previous records in which only a few such species were known. The new species are strikingly different from each other, and the team says that they are "very different from any other species in the genus."

from which they obtain a supply of the mineral substances for digestion of plant food.

During similar collecting expeditions in 1961, 1962, and 1963, the following species were collected to explore the distribution of the *Chrysomelidae* in the area. The following species were collected during the expeditions: *Chrysomelidae* (1961) (1962) (1963) (1964) (1965) (1966) (1967) (1968) (1969) (1970) (1971) (1972) (1973) (1974) (1975) (1976) (1977) (1978) (1979) (1980) (1981) (1982) (1983) (1984) (1985) (1986) (1987) (1988) (1989) (1990) (1991) (1992) (1993) (1994) (1995) (1996) (1997) (1998) (1999) (2000) (2001) (2002) (2003) (2004) (2005) (2006) (2007) (2008) (2009) (2010) (2011) (2012) (2013) (2014) (2015) (2016) (2017) (2018) (2019) (2020) (2021) (2022) (2023) (2024) (2025) (2026) (2027) (2028) (2029) (2030) (2031) (2032) (2033) (2034) (2035) (2036) (2037) (2038) (2039) (2040) (2041) (2042) (2043) (2044) (2045) (2046) (2047) (2048) (2049) (2050) (2051) (2052) (2053) (2054) (2055) (2056) (2057) (2058) (2059) (2060) (2061) (2062) (2063) (2064) (2065) (2066) (2067) (2068) (2069) (2070) (2071) (2072) (2073) (2074) (2075) (2076) (2077) (2078) (2079) (2080) (2081) (2082) (2083) (2084) (2085) (2086) (2087) (2088) (2089) (2090) (2091) (2092) (2093) (2094) (2095) (2096) (2097) (2098) (2099) (2100) (2101) (2102) (2103) (2104) (2105) (2106) (2107) (2108) (2109) (2110) (2111) (2112) (2113) (2114) (2115) (2116) (2117) (2118) (2119) (2120) (2121) (2122) (2123) (2124) (2125) (2126) (2127) (2128) (2129) (2130) (2131) (2132) (2133) (2134) (2135) (2136) (2137) (2138) (2139) (2140) (2141) (2142) (2143) (2144) (2145) (2146) (2147) (2148) (2149) (2150) (2151) (2152) (2153) (2154) (2155) (2156) (2157) (2158) (2159) (2160) (2161) (2162) (2163) (2164) (2165) (2166) (2167) (2168) (2169) (2170) (2171) (2172) (2173) (2174) (2175) (2176) (2177) (2178) (2179) (2180) (2181) (2182) (2183) (2184) (2185) (2186) (2187) (2188) (2189) (2190) (2191) (2192) (2193) (2194) (2195) (2196) (2197) (2198) (2199) (2200) (2201) (2202) (2203) (2204) (2205) (2206) (2207) (2208) (2209) (2210) (2211) (2212) (2213) (2214) (2215) (2216) (2217) (2218) (2219) (2220) (2221) (2222) (2223) (2224) (2225) (2226) (2227) (2228) (2229) (2230) (2231) (2232) (2233) (2234) (2235) (2236) (2237) (2238) (2239) (2240) (2241) (2242) (2243) (2244) (2245) (2246) (2247) (2248) (2249) (2250) (2251) (2252) (2253) (2254) (2255) (2256) (2257) (2258) (2259) (2260) (2261) (2262) (2263) (2264) (2265) (2266) (2267) (2268) (2269) (2270) (2271) (2272) (2273) (2274) (2275) (2276) (2277) (2278) (2279) (2280) (2281) (2282) (2283) (2284) (2285) (2286) (2287) (2288) (2289) (2290) (2291) (2292) (2293) (2294) (2295) (2296) (2297) (2298) (2299) (2300) (2301) (2302) (2303) (2304) (2305) (2306) (2307) (2308) (2309) (2310) (2311) (2312) (2313) (2314) (2315) (2316) (2317) (2318) (2319) (2320) (2321) (2322) (2323) (2324) (2325) (2326) (2327) (2328) (2329) (2330) (2331) (2332) (2333) (2334) (2335) (2336) (2337) (2338) (2339) (2340) (2341) (2342) (2343) (2344) (2345) (2346) (2347) (2348) (2349) (2350) (2351) (2352) (2353) (2354) (2355) (2356) (2357) (2358) (2359) (2360) (2361) (2362) (2363) (2364) (2365) (2366) (2367) (2368) (2369) (2370) (2371) (2372) (2373) (2374) (2375) (2376) (2377) (2378) (2379) (2380) (2381) (2382) (2383) (2384) (2385) (2386) (2387) (2388) (2389) (2390) (2391) (2392) (2393) (2394) (2395) (2396) (2397) (2398) (2399) (2400) (2401) (2402) (2403) (2404) (2405) (2406) (2407) (2408) (2409) (2410) (2411) (2412) (2413) (2414) (2415) (2416) (2417) (2418) (2419) (2420) (2421) (2422) (2423) (2424) (2425) (2426) (2427) (2428) (2429) (2430) (2431) (2432) (2433) (2434) (2435) (2436) (2437) (2438) (2439) (2440) (2441) (2442) (2443) (2444) (2445) (2446) (2447) (2448) (2449) (2450) (2451) (2452) (2453) (2454) (2455) (2456) (2457) (2458) (2459) (2460) (2461) (2462) (2463) (2464) (2465) (2466) (2467) (2468) (2469) (2470) (2471) (2472) (2473) (2474) (2475) (2476) (2477) (2478) (2479) (2480) (2481) (2482) (2483) (2484) (2485) (2486) (2487) (2488) (2489) (2490) (2491) (2492) (2493) (2494) (2495) (2496) (2497) (2498) (2499) (2500) (2501) (2502) (2503) (2504) (2505) (2506) (2507) (2508) (2509) (2510) (2511) (2512) (2513) (2514) (2515) (2516) (2517) (2518) (2519) (2520) (2521) (2522) (2523) (2524) (2525) (2526) (2527) (2528) (2529) (2530) (2531) (2532) (2533) (2534) (2535) (2536) (2537) (2538) (2539) (2540) (2541) (2542) (2543) (2544) (2545) (2546) (2547) (2548) (2549) (2550) (2551) (2552) (2553) (2554) (2555) (2556) (2557) (2558) (2559) (2560) (2561) (2562) (2563) (2564) (2565) (2566) (2567) (2568) (2569) (2570) (2571) (2572) (2573) (2574) (2575) (2576) (2577) (2578) (2579) (2580) (2581) (2582) (2583) (2584) (2585) (2586) (2587) (2588) (2589) (2590) (2591) (2592) (2593) (2594) (2595) (2596) (2597) (2598) (2599) (2600) (2601) (2602) (2603) (2604) (2605) (2606) (2607) (2608) (2609) (2610) (2611) (2612) (2613) (2614) (2615) (2616) (2617) (2618) (2619) (2620) (2621) (2622) (2623) (2624) (2625) (2626) (2627) (2628) (2629) (2630) (2

1. 在 1990 年 12 月 31 日以前，  
 2. 在 1990 年 12 月 31 日以前，  
 3. 在 1990 年 12 月 31 日以前，

## NATIONAL GEOGRAPHIC SOCIETY MEMBERSHIP

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**I DESIRE INFORMATION** ☐ **YES** ☐ **NO**



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In the eye of a needle above is a transistor switch that can turn on or off in ten billionths of a second. It is an example of the micro-miniature devices that Western Electric makes today for the new Electronic Switching Systems now being put into service in the Bell telephone network. Life-size, the unit shown is scarcely larger than the period that ends its sentence.

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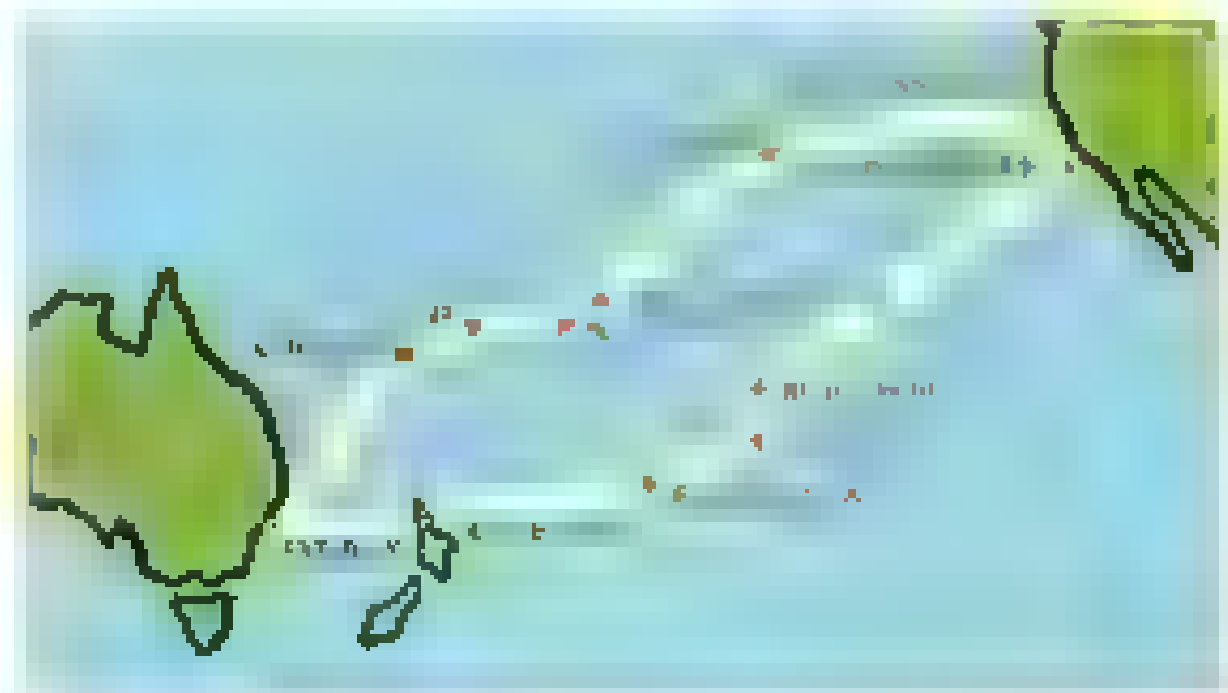
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There's a special way to enter the South Seas - the Matson way—on the S.S. MARIPOSA and MONTEREY. Here, among islands of incredible beauty set in flashing cobalt seas, you rediscover the importance of a smile, the adventure in a blossom and the soaring promise of a tropic dawn.

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French Place near Jackson, Miss 1890

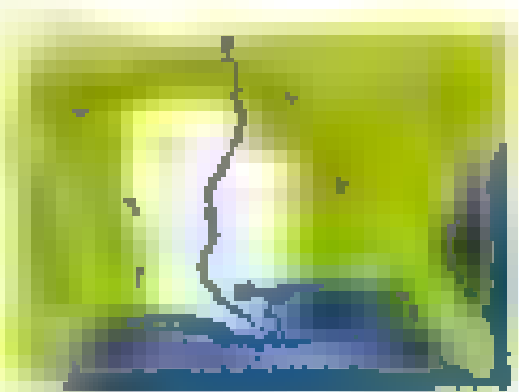
# The sights are here ...for the young at heart *The Changing Middle South    Arkansas   Louisiana   Mississippi*

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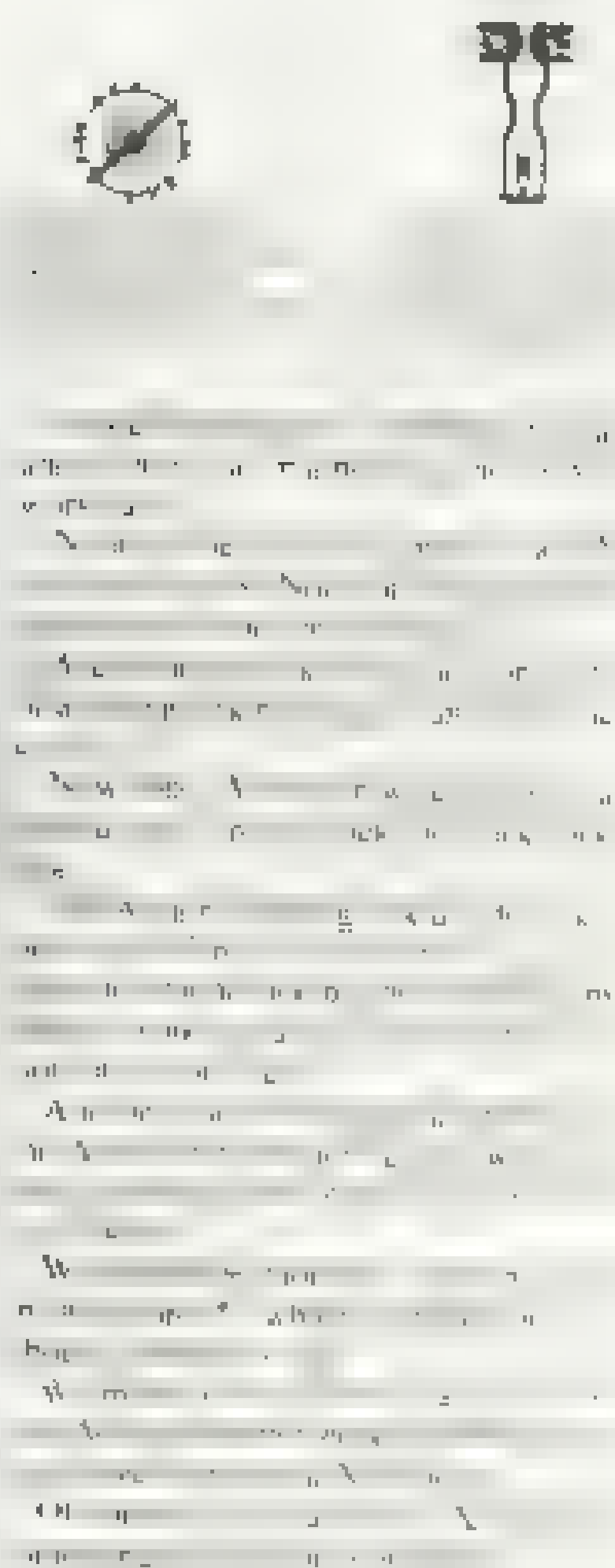
## THE MIDDLE SOUTH CELLS SYSTEM

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 Phone ... ..  
 Telex ... ..  
 Cable ... ..  
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The Accutron tuning  
fork divides every second  
into 360 equal parts.





2.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting two heads)

3.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting two tails)

4.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting one head and one tail)

5.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$  (Probability of getting one tail and one head)

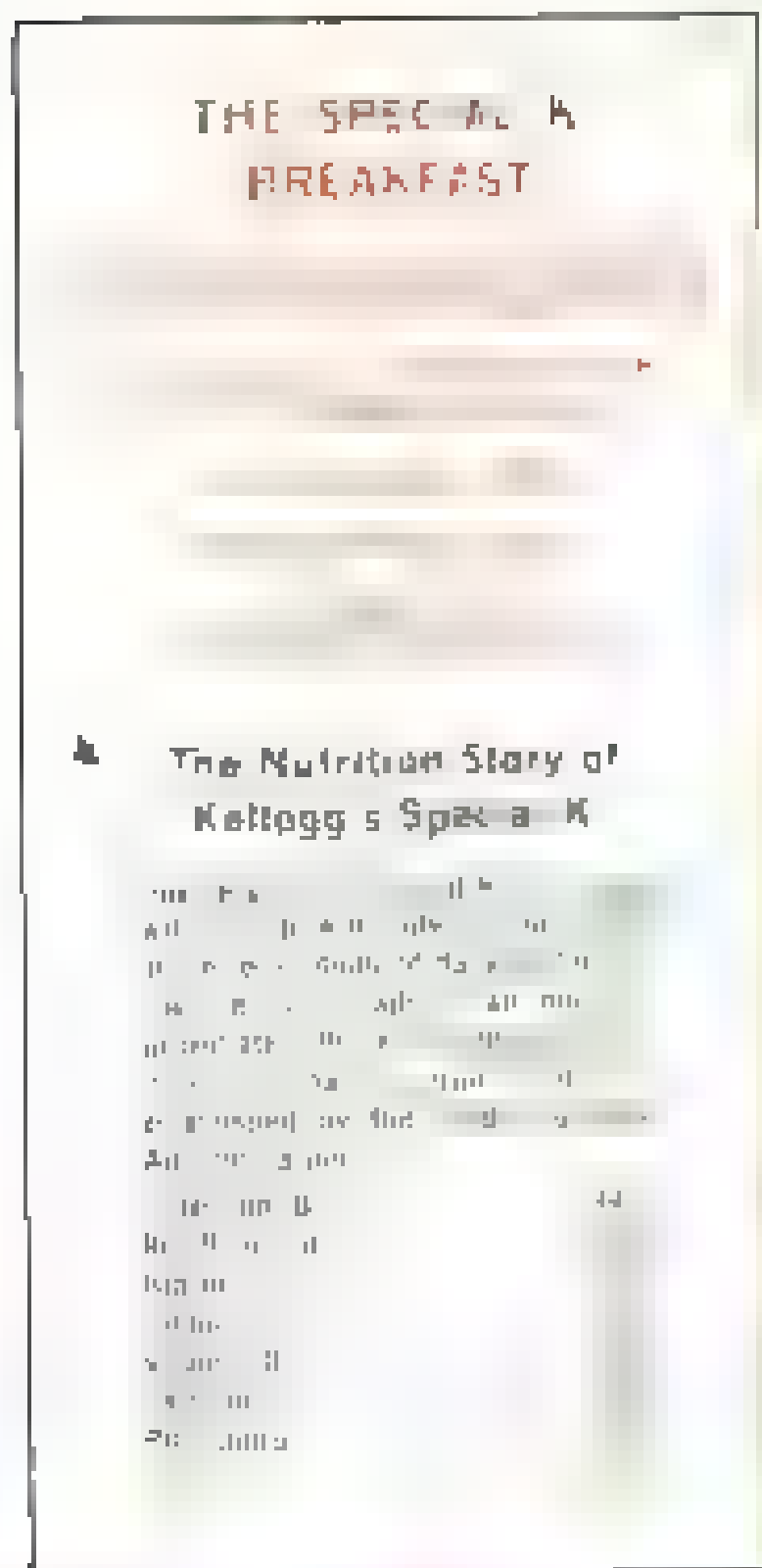
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Wiederholungen: 4 bis 6 mal pro Tag



# Having trouble with weight control?

**The Special K Breakfast is for you. Only 240 calories.  
Good in protein. 99% fat-free Tastes fine, day after day.**



...this is the worst control breakfast you can give with. It's not a good month.

[illegible]

1. The first part of the document discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes the need for a systematic approach to record-keeping, such as using a ledger or accounting software, to ensure that all financial data is properly documented and organized.

2. The second part of the document focuses on the importance of regular reconciliation. This involves comparing the company's internal records with external statements, such as bank statements or supplier invoices, to identify any discrepancies or errors. Regular reconciliation helps to ensure the accuracy of the financial records and allows for the timely identification and correction of any mistakes.

3. The third part of the document discusses the importance of maintaining proper documentation for all financial transactions. This includes keeping receipts, invoices, and other supporting documents for each transaction. Proper documentation is essential for verifying the accuracy of the financial records and for providing evidence in the event of an audit or dispute.

4. The fourth part of the document discusses the importance of maintaining accurate records of all assets and liabilities. This includes tracking the value of the company's assets, such as equipment and inventory, and the value of its liabilities, such as loans and accounts payable. Accurate records of assets and liabilities are essential for determining the company's net worth and for making informed financial decisions.

5. The fifth part of the document discusses the importance of maintaining accurate records of all income and expenses. This includes tracking the company's revenue from sales and other sources, as well as its expenses for operating costs, salaries, and taxes. Accurate records of income and expenses are essential for determining the company's profitability and for preparing financial statements.

6. The sixth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all cash inflows and outflows, as well as all bank deposits and withdrawals. Accurate records of financial transactions are essential for determining the company's cash flow and for managing its liquidity.

7. The seventh part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all sales and purchases, as well as all expenses and income. Accurate records of financial transactions are essential for determining the company's financial performance and for making informed financial decisions.

8. The eighth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all assets and liabilities, as well as all income and expenses. Accurate records of financial transactions are essential for determining the company's financial position and for making informed financial decisions.

9. The ninth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all sales and purchases, as well as all expenses and income. Accurate records of financial transactions are essential for determining the company's financial performance and for making informed financial decisions.

10. The tenth part of the document discusses the importance of maintaining accurate records of all financial transactions. This includes tracking all assets and liabilities, as well as all income and expenses. Accurate records of financial transactions are essential for determining the company's financial position and for making informed financial decisions.

**Kellogg's** SPECIAL K






In Nassau, ever the night is pretty far out

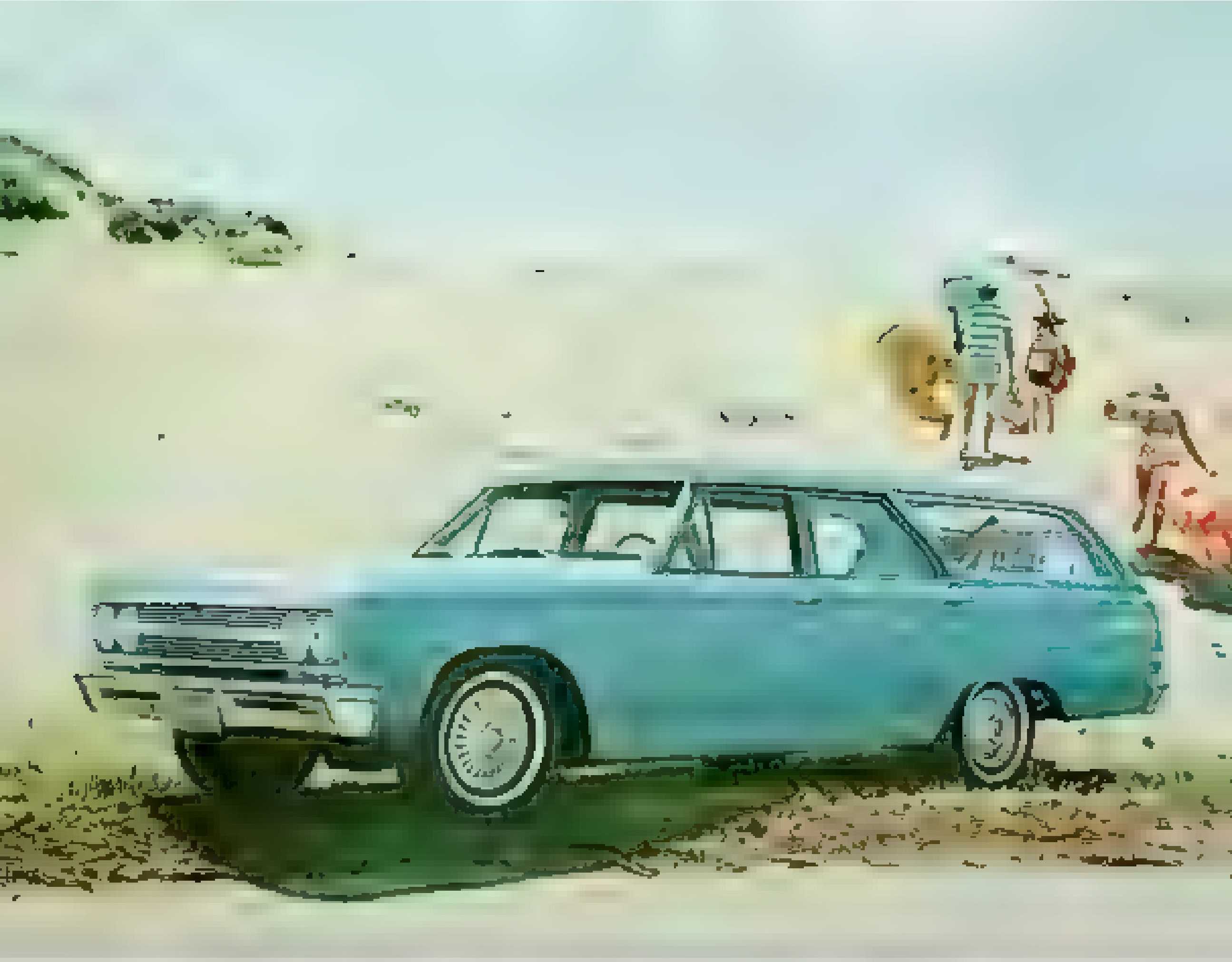
BY MICHAEL O'NEILL

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THE BAHAMAS

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Big V8 up front, 86 cu. ft. of cargo space in back  
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## '65 CHEVELLE by Chevrolet

If you're for wide open spaces and freedom like us, And there's room under the hood for the kind of youthful spirit that makes you want to go just for the fun of it.

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

*J. J. H. van der Wal*

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

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6. **Public**      5. **Private**

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1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

| Region        | Year | Population    | Population density | Population growth | Population density growth | Population growth density |
|---------------|------|---------------|--------------------|-------------------|---------------------------|---------------------------|
| North America | 1990 | 290,000,000   | 29.0               | 1.0               | 1.0                       | 1.0                       |
| Europe        | 1990 | 510,000,000   | 51.0               | 1.0               | 1.0                       | 1.0                       |
| Asia          | 1990 | 3,200,000,000 | 32.0               | 1.0               | 1.0                       | 1.0                       |
| Africa        | 1990 | 510,000,000   | 51.0               | 1.0               | 1.0                       | 1.0                       |
| South America | 1990 | 290,000,000   | 29.0               | 1.0               | 1.0                       | 1.0                       |
| Oceania       | 1990 | 29,000,000    | 2.9                | 1.0               | 1.0                       | 1.0                       |
| World         | 1990 | 5,100,000,000 | 51.0               | 1.0               | 1.0                       | 1.0                       |
| North America | 2000 | 300,000,000   | 30.0               | 1.0               | 1.0                       | 1.0                       |
| Europe        | 2000 | 520,000,000   | 52.0               | 1.0               | 1.0                       | 1.0                       |
| Asia          | 2000 | 3,300,000,000 | 33.0               | 1.0               | 1.0                       | 1.0                       |
| Africa        | 2000 | 520,000,000   | 52.0               | 1.0               | 1.0                       | 1.0                       |
| South America | 2000 | 300,000,000   | 30.0               | 1.0               | 1.0                       | 1.0                       |
| Oceania       | 2000 | 30,000,000    | 3.0                | 1.0               | 1.0                       | 1.0                       |
| World         | 2000 | 5,200,000,000 | 52.0               | 1.0               | 1.0                       | 1.0                       |

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

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Figure 1 shows a mechanical system with two frames and two degrees of freedom. The first frame has a mass  $m$  and is connected to a base by a spring  $k$  and a damper  $c$ . The second frame also has a mass  $m$  and is connected to the first frame by a spring  $k$  and a damper  $c$ . The second frame is also connected to a base by a spring  $k$  and a damper  $c$ .



Figure 1. Schematic diagram of the experimental setup.





# Be a traveler... not a tourist!

There is no place for a common place in these among us. There is no place for a common place.

**QUESTION**

A patient has been prescribed a medication that is known to cause drowsiness. The nurse is planning to administer the medication at bedtime. Which action should the nurse take first?

**ANSWER**

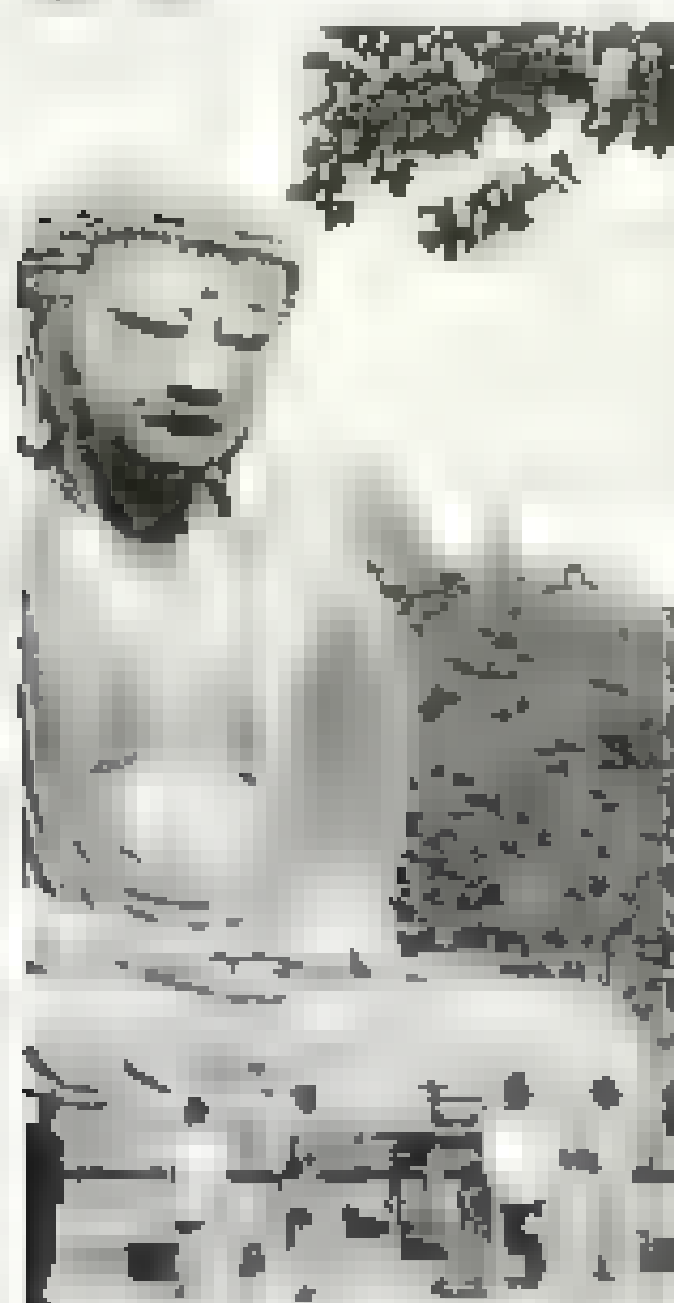
The nurse should assess the patient's level of consciousness before administering the medication.

**RATIONALE**

The nurse should assess the patient's level of consciousness before administering the medication because the medication may cause drowsiness. Assessing the patient's level of consciousness will help the nurse determine if the patient is able to safely take the medication.

**TEST TAKEAWAYS**

This question tests the nurse's knowledge of the potential side effects of a medication and the importance of assessing the patient's level of consciousness before administration.



### 33. Day Ten: Around the World

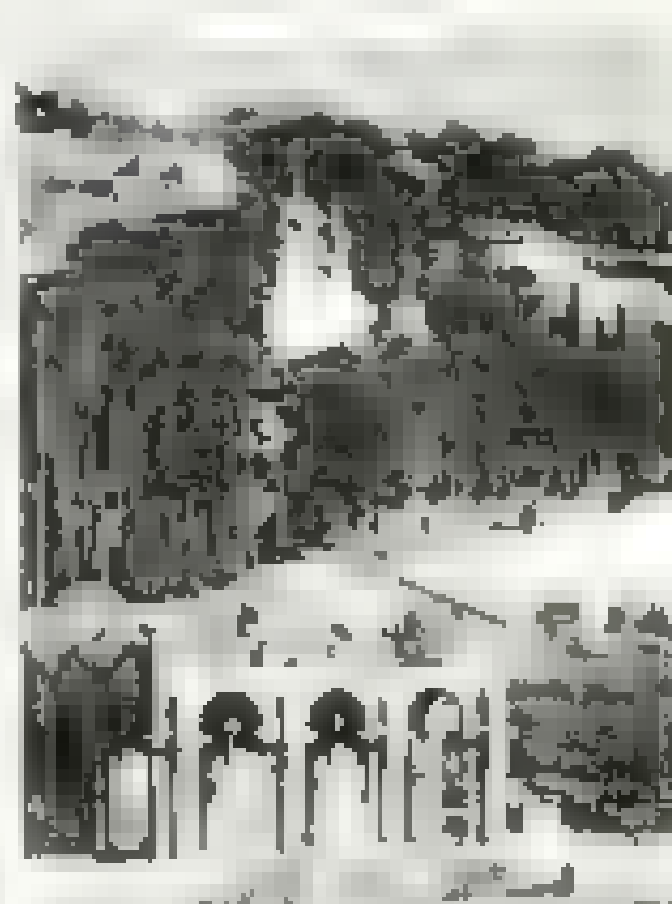
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### Mid- to Eastern Budget Cruise

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1. *What is the purpose of the study?*  
 2. *What are the research objectives?*  
 3. *What is the research methodology?*  
 4. *What are the results of the study?*  
 5. *What are the conclusions of the study?*  
 6. *What are the limitations of the study?*  
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 154. *What are the duooctogonesary outcomes of the study?*  
 155. *What are the duodeoctogonesary outcomes of the study?*  
 156. *What are the treoctogonesary outcomes of the study?*  
 157. *What are the quattuoroctogonesary outcomes of the study?*  
 158. *What are the quinoctogonesary outcomes of the study?*  
 159. *What are the sexoctogonesary outcomes of the study?*<

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As long as I am in Bermuda,  
I will see nothing good, a bill  
that would give me more than five  
dollars a week. In Bermuda,  
the British have been  
placed in the

Rempla lets you choose your own pace. For example, when



1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

Y. L. Cheng et al.

1.  2.  3.  4.  5.  6.  7.  8.  9.  10.  11.  12.  13.  14.  15.  16.  17.  18.  19.  20.  21.  22.  23.  24.  25.  26.  27.  28.  29.  30.  31.  32.  33.  34.  35.  36.  37.  38.  39.  40.  41.  42.  43.  44.  45.  46.  47.  48.  49.  50.  51.  52.  53.  54.  55.  56.  57.  58.  59.  60.  61.  62.  63.  64.  65.  66.  67.  68.  69.  70.  71.  72.  73.  74.  75.  76.  77.  78.  79.  80.  81.  82.  83.  84.  85.  86.  87.  88.  89.  90.  91.  92.  93.  94.  95.  96.  97.  98.  99.  100.

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1.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
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 9.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$   
 10.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

[illegible]

**Excitement after window.** After  
 a few minutes he was pleased  
 for the first time since the window



1. *What is the main purpose of the study?*

1.  $\frac{1}{2}$  2.  $\frac{1}{3}$  3.  $\frac{1}{4}$  4.  $\frac{1}{5}$  5.  $\frac{1}{6}$  6.  $\frac{1}{7}$  7.  $\frac{1}{8}$  8.  $\frac{1}{9}$  9.  $\frac{1}{10}$  10.  $\frac{1}{11}$  11.  $\frac{1}{12}$  12.  $\frac{1}{13}$  13.  $\frac{1}{14}$  14.  $\frac{1}{15}$  15.  $\frac{1}{16}$  16.  $\frac{1}{17}$  17.  $\frac{1}{18}$  18.  $\frac{1}{19}$  19.  $\frac{1}{20}$  20.  $\frac{1}{21}$  21.  $\frac{1}{22}$  22.  $\frac{1}{23}$  23.  $\frac{1}{24}$  24.  $\frac{1}{25}$  25.  $\frac{1}{26}$  26.  $\frac{1}{27}$  27.  $\frac{1}{28}$  28.  $\frac{1}{29}$  29.  $\frac{1}{30}$  30.  $\frac{1}{31}$  31.  $\frac{1}{32}$  32.  $\frac{1}{33}$  33.  $\frac{1}{34}$  34.  $\frac{1}{35}$  35.  $\frac{1}{36}$  36.  $\frac{1}{37}$  37.  $\frac{1}{38}$  38.  $\frac{1}{39}$  39.  $\frac{1}{40}$  40.  $\frac{1}{41}$  41.  $\frac{1}{42}$  42.  $\frac{1}{43}$  43.  $\frac{1}{44}$  44.  $\frac{1}{45}$  45.  $\frac{1}{46}$  46.  $\frac{1}{47}$  47.  $\frac{1}{48}$  48.  $\frac{1}{49}$  49.  $\frac{1}{50}$  50.  $\frac{1}{51}$  51.  $\frac{1}{52}$  52.  $\frac{1}{53}$  53.  $\frac{1}{54}$  54.  $\frac{1}{55}$  55.  $\frac{1}{56}$  56.  $\frac{1}{57}$  57.  $\frac{1}{58}$  58.  $\frac{1}{59}$  59.  $\frac{1}{60}$  60.  $\frac{1}{61}$  61.  $\frac{1}{62}$  62.  $\frac{1}{63}$  63.  $\frac{1}{64}$  64.  $\frac{1}{65}$  65.  $\frac{1}{66}$  66.  $\frac{1}{67}$  67.  $\frac{1}{68}$  68.  $\frac{1}{69}$  69.  $\frac{1}{70}$  70.  $\frac{1}{71}$  71.  $\frac{1}{72}$  72.  $\frac{1}{73}$  73.  $\frac{1}{74}$  74.  $\frac{1}{75}$  75.  $\frac{1}{76}$  76.  $\frac{1}{77}$  77.  $\frac{1}{78}$  78.  $\frac{1}{79}$  79.  $\frac{1}{80}$  80.  $\frac{1}{81}$  81.  $\frac{1}{82}$  82.  $\frac{1}{83}$  83.  $\frac{1}{84}$  84.  $\frac{1}{85}$  85.  $\frac{1}{86}$  86.  $\frac{1}{87}$  87.  $\frac{1}{88}$  88.  $\frac{1}{89}$  89.  $\frac{1}{90}$  90.  $\frac{1}{91}$  91.  $\frac{1}{92}$  92.  $\frac{1}{93}$  93.  $\frac{1}{94}$  94.  $\frac{1}{95}$  95.  $\frac{1}{96}$  96.  $\frac{1}{97}$  97.  $\frac{1}{98}$  98.  $\frac{1}{99}$  99.  $\frac{1}{100}$  100.  $\frac{1}{101}$  101.  $\frac{1}{102}$  102.  $\frac{1}{103}$  103.  $\frac{1}{104}$  104.  $\frac{1}{105}$  105.  $\frac{1}{106}$  106.  $\frac{1}{107}$  107.  $\frac{1}{108}$  108.  $\frac{1}{109}$  109.  $\frac{1}{110}$  110.  $\frac{1}{111}$  111.  $\frac{1}{112}$  112.  $\frac{1}{113}$  113.  $\frac{1}{114}$  114.  $\frac{1}{115}$  115.  $\frac{1}{116}$  116.  $\frac{1}{117}$  117.  $\frac{1}{118}$  118.  $\frac{1}{119}$  119.  $\frac{1}{120}$  120.  $\frac{1}{121}$  121.  $\frac{1}{122}$  122.  $\frac{1}{123}$  123.  $\frac{1}{124}$  124.  $\frac{1}{125}$  125.  $\frac{1}{126}$  126.  $\frac{1}{127}$  127.  $\frac{1}{128}$  128.  $\frac{1}{129}$  129.  $\frac{1}{130}$  130.  $\frac{1}{131}$  131.  $\frac{1}{132}$  132.  $\frac{1}{133}$  133.  $\frac{1}{134}$  134.  $\frac{1}{135}$  135.  $\frac{1}{136}$  136.  $\frac{1}{137}$  137.  $\frac{1}{138}$  138.  $\frac{1}{139}$  139.  $\frac{1}{140}$  140.  $\frac{1}{141}$  141.  $\frac{1}{142}$  142.  $\frac{1}{143}$  143.  $\frac{1}{144}$  144.  $\frac{1}{145}$  145.  $\frac{1}{146}$  146.  $\frac{1}{147}$  147.  $\frac{1}{148}$  148.  $\frac{1}{149}$  149.  $\frac{1}{150}$  150.  $\frac{1}{151}$  151.  $\frac{1}{152}$  152.  $\frac{1}{153}$  153.  $\frac{1}{154}$  154.  $\frac{1}{155}$  155.  $\frac{1}{156}$  156.  $\frac{1}{157}$  157.  $\frac{1}{158}$  158.  $\frac{1}{159}$  159.  $\frac{1}{160}$  160.  $\frac{1}{161}$  161.  $\frac{1}{162}$  162.  $\frac{1}{163}$  163.  $\frac{1}{164}$  164.  $\frac{1}{165}$  165.  $\frac{1}{166}$  166.  $\frac{1}{167}$  167.  $\frac{1}{168}$  168.  $\frac{1}{169}$  169.  $\frac{1}{170}$  170.  $\frac{1}{171}$  171.  $\frac{1}{172}$  172.  $\frac{1}{173}$  173.  $\frac{1}{174}$  174.  $\frac{1}{175}$  175.  $\frac{1}{176}$  176.  $\frac{1}{177}$  177.  $\frac{1}{178}$  178.  $\frac{1}{179}$  179.  $\frac{1}{180}$  180.  $\frac{1}{181}$  181.  $\frac{1}{182}$  182.  $\frac{1}{183}$  183.  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[illegible]

Did you bring the children? I am  
 a little bit tired today. I am  
 a little bit tired. And I am a little  
 a little bit tired. I am a little  
 a little bit tired. I am a little  
 a little bit tired. I am a little

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the man had a ...  
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... while ...  
he must have ...  
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[illegible]



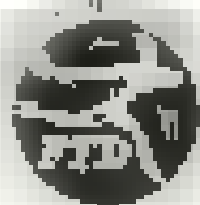


"...here being away  
on our anniversary. Send  
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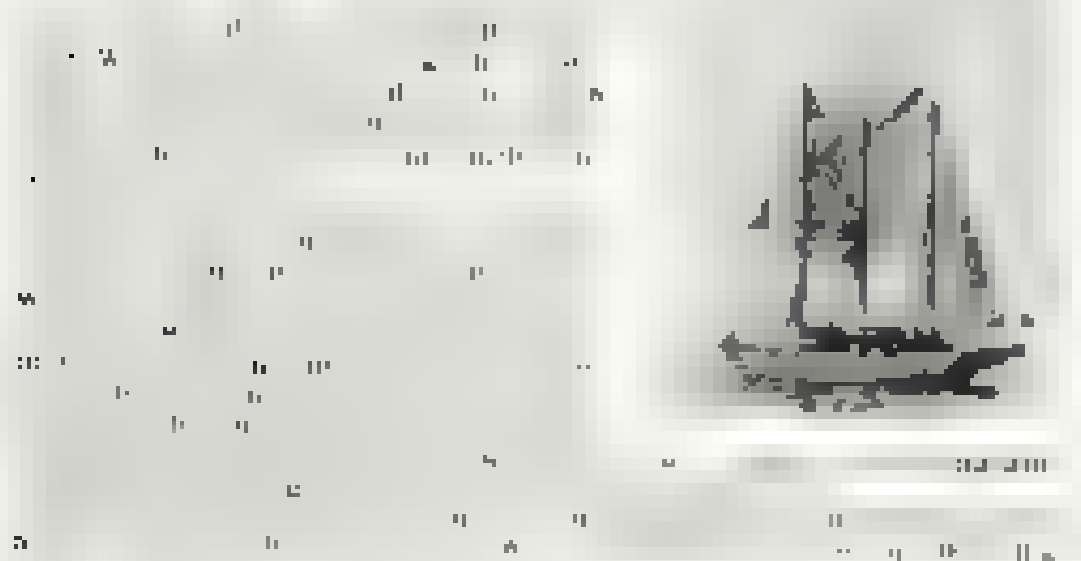


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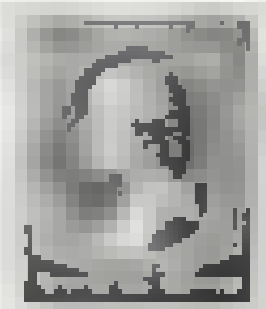
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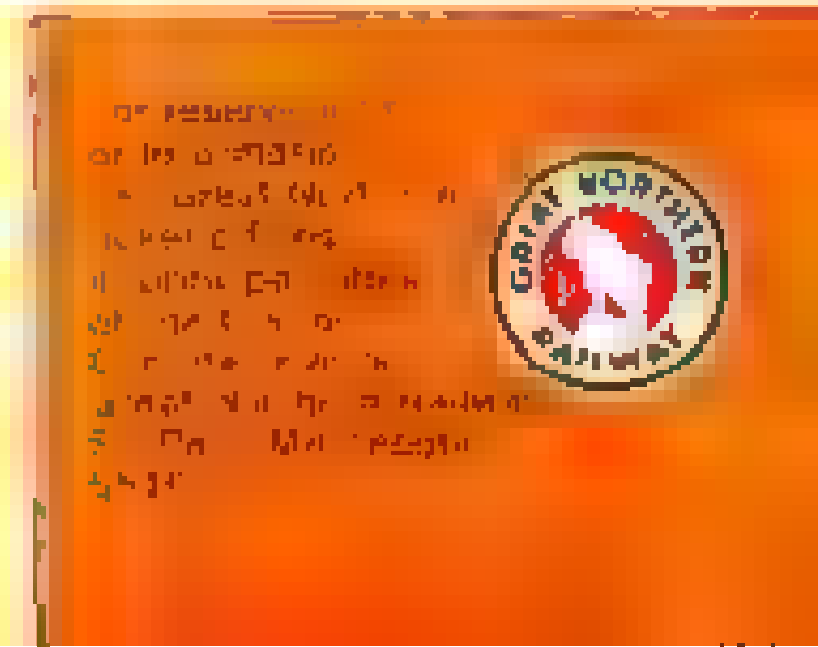
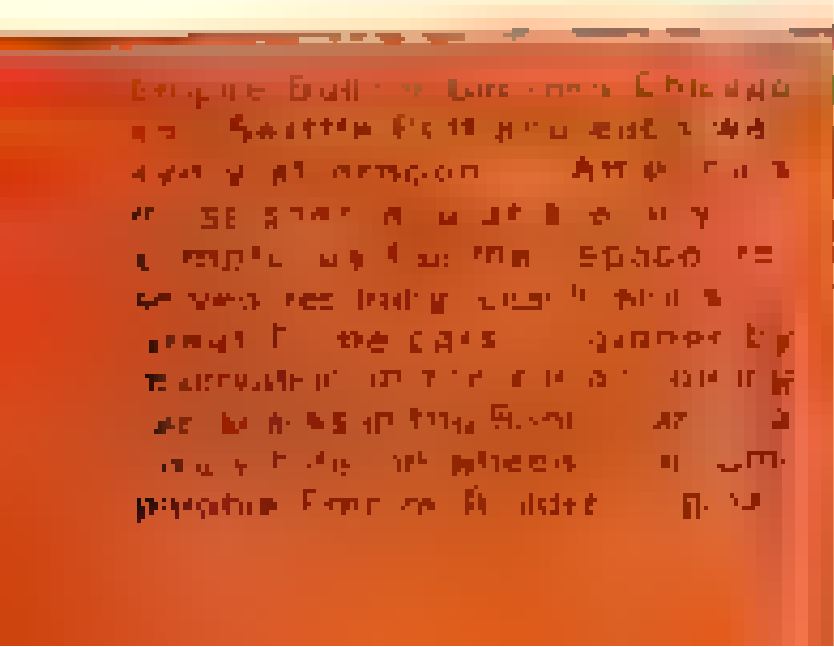
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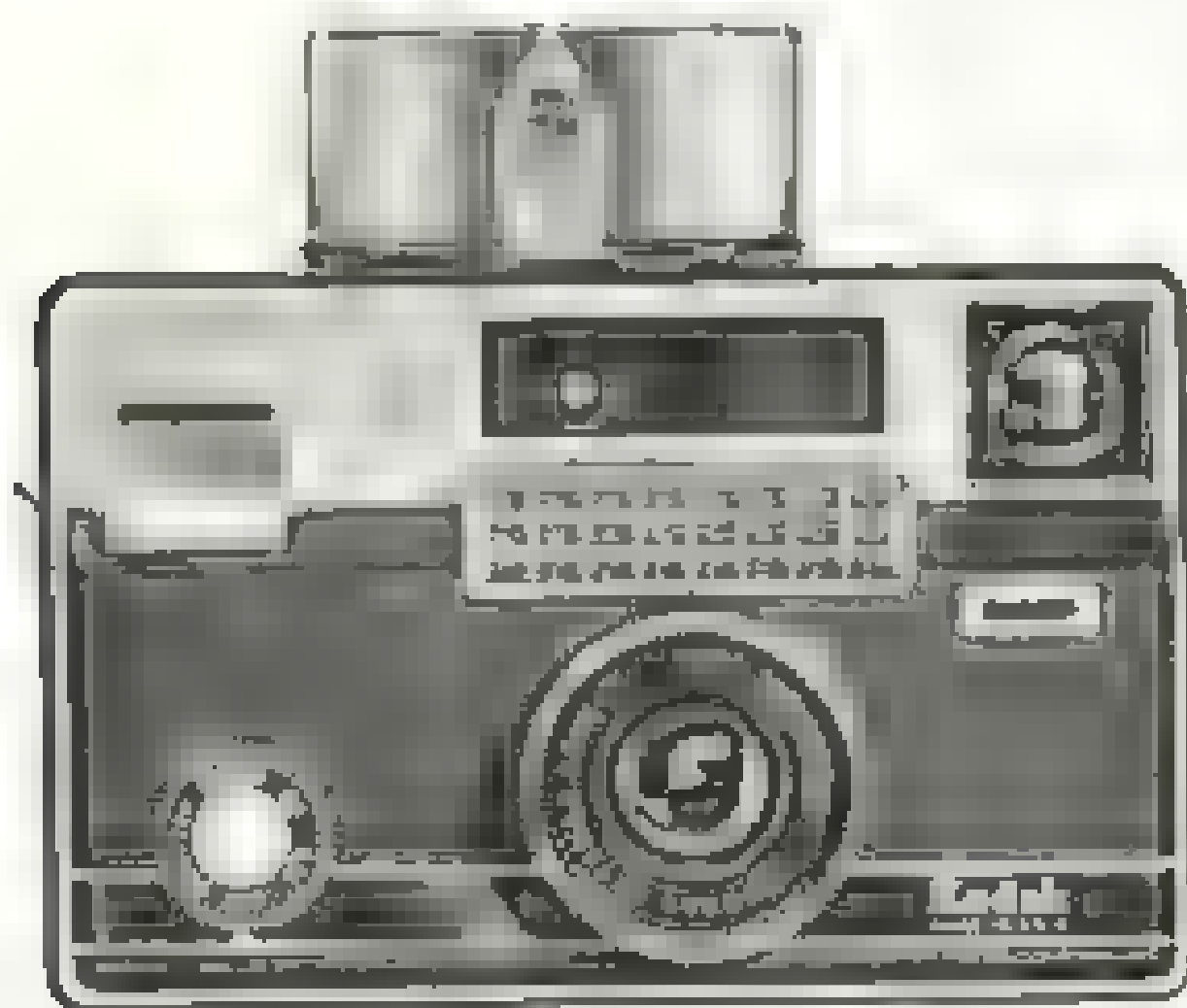




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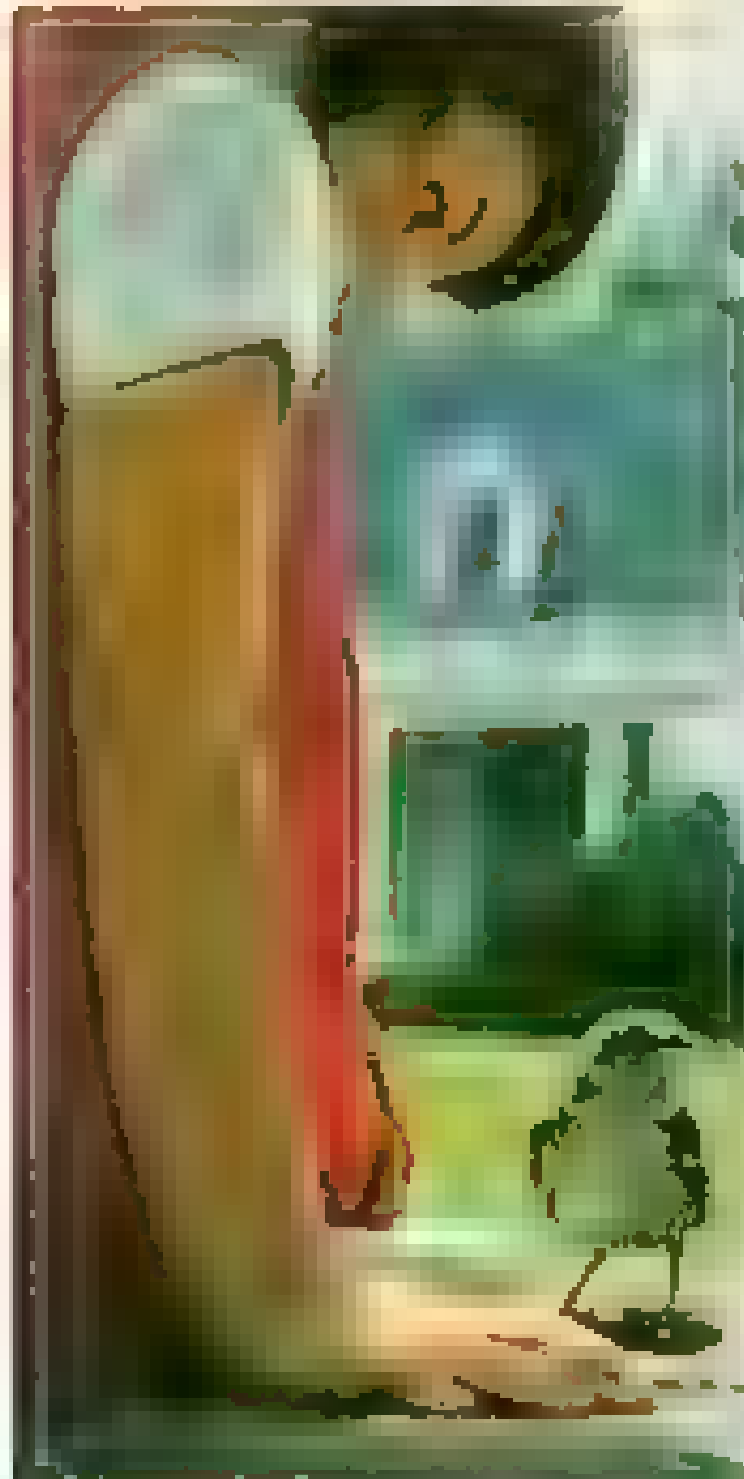
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[illegible]

$\gamma_0$      $n_i$      $j$      $k$

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

**Abstract**

14

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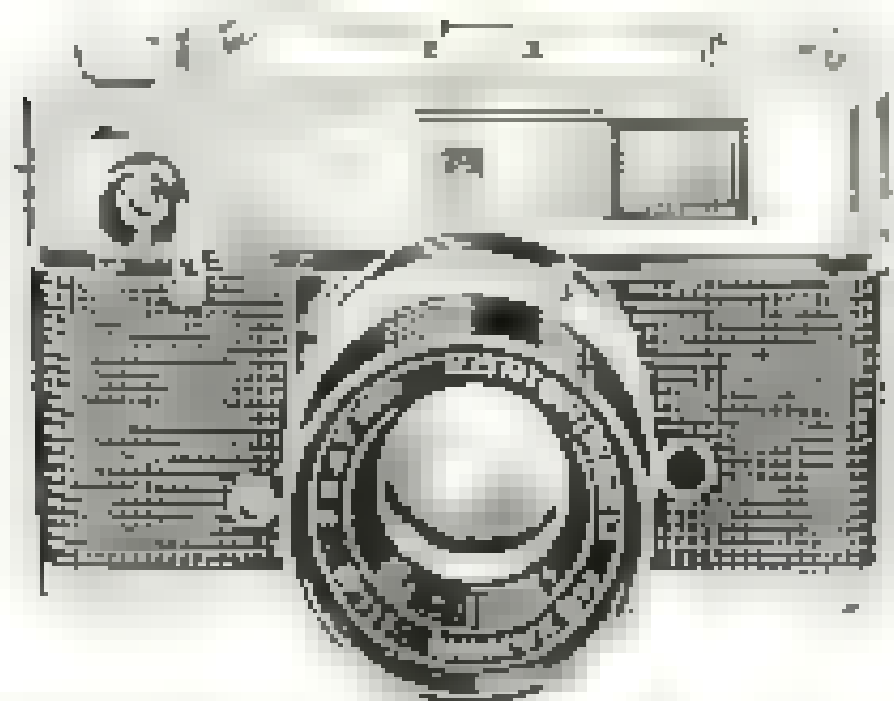
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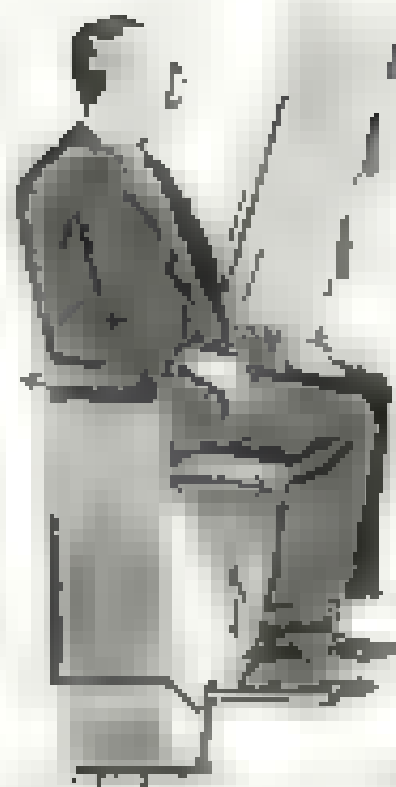
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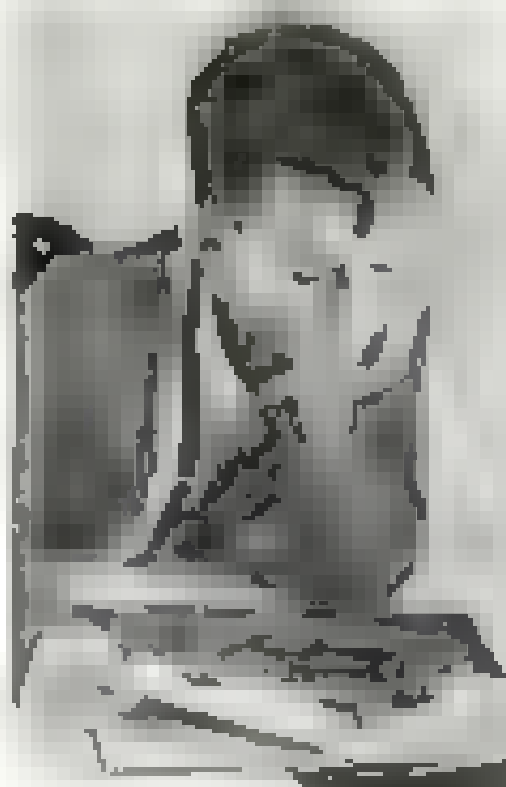


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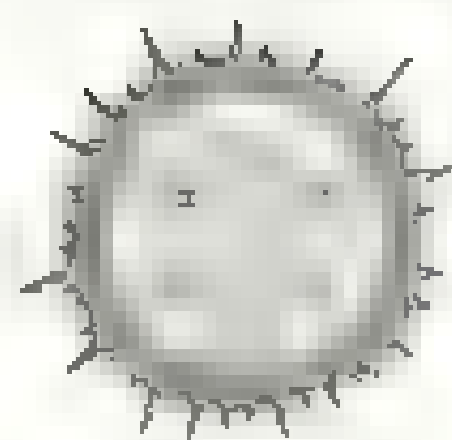
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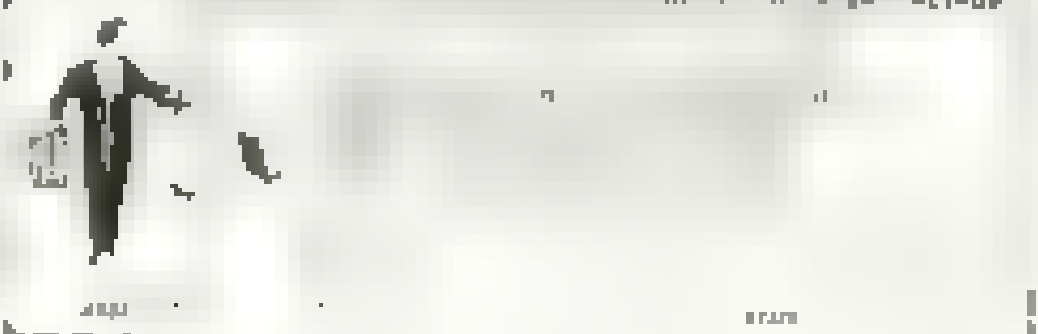
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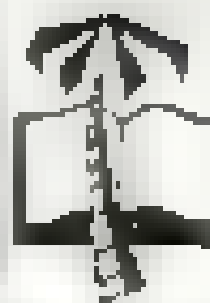
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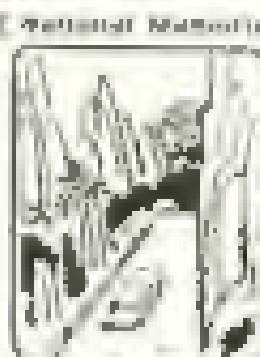
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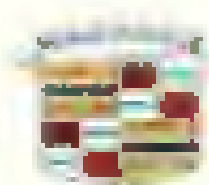


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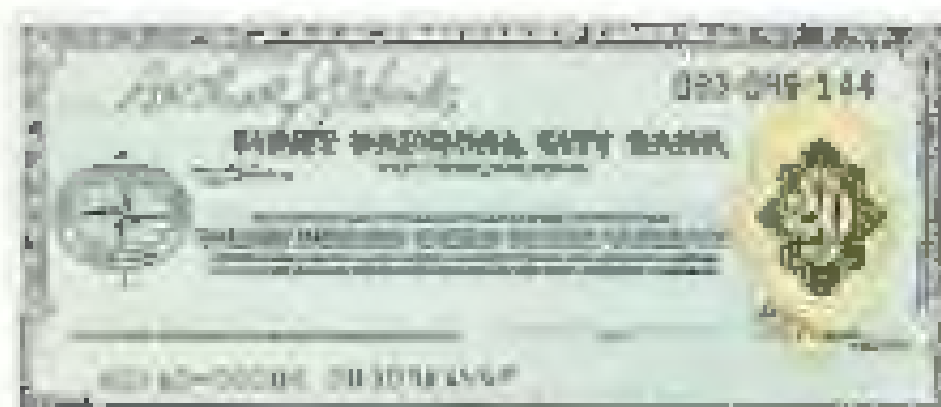
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